

<211> 86

<213> Homo sapiens

ggcgctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc
cccgaaatat ctgccatctc aattag

60
86

<213> Homo sapiens

gcggcaagct ttttgcaaag cctaggc

27

<213> Homo sapiens

ctcgagattt	ccccgaaatc	tagatttccc	cgaatagatt	tccccgaaat	gatttccccg
aaatatctgc	catctcaatt	agtcagcaac	catagtcccg	cccctaactc	cgcccatccc
gcccctaact	ccgcccagtt	ccgcccatc	tccgccccat	ggctgactaa	ttttttttat
ttatgcagag	gcgcaggccg	cctcggcctc	tgagctatgc	cagaagtagt	gaggaggcct
tttttgaggc	ctaggctttt	gcaaaaagct	t		

60
120
180
240
271

<213> Homo sapiens

gcgctcgagg gatgacagcg atagaacccc gg

32

<213> Homo sapiens

gcgaagcttc gcgactcccc ggatccgcct c

31

<213> Homo sapiens

ggggactttc cc

12

<213> Homo sapiens

<400> 9
 gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60
 ccattctcaat tag 73

<210> 10
 <211> 256
 <212> DNA
 <213> Homo sapiens

<400> 10
 ctcgagggga ctttcccgga gactttccgg ggactttccg ggactttcca tctgccatct 60
 caattagtca gcaaccatag tcccggccct aactccgccc atcccggccc taactccgcc 120
 cagtcccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
 cttttgcaaa aagctt 256

<210> 11
 <211> 1766
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (36)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1750)
 <223> n equals a,t,g, or c

<400> 11
 acgggggctt taangggaaa cccttcccgga aatttncggg tcgacccacg cgtccggttt 60
 tgtttatgga gggtcagta agtgcaaa accattgcct ggtcctaagg gttcagagtc 120
 cccgaattcc ttcttggacc aggaagccg gagacgaaga ttaccattg cagactcggga 180
 tcagttgcct gggtactcgg tggaaaccaa cattctgccc acaaaaatga gagagaaaac 240
 accatcttat ggcaagccac ggcctttgtc catgcctgct gatgggaact ggatggggat 300
 tgtggaccct tttgccagac ctgcaggtca tggcaggaaa ggggaggatg ccttttgccg 360
 gtatttcagt aacgagcggga ttctccgat cattgaagag agctcctctc ccccataccg 420
 gttctccaga cccacgaccg agcggcatct ggtccggggg gcggactaca tccgaggaag 480
 caggtgctac atcaactcag atctccacag cagcgccacg attccattcc aggaggaagg 540
 gaccaaaaag aaatctggct cctcagctac gagtcctcgt ccacagaacc gtccctcctg 600
 gtcagctggt ttacgcgcct caaactgttg actcactgag agggaccctg ctcaggccac 660
 ctgcctggct cctgscocaa gtgccttgct tttacagtgg acagcctctt ctggtttcag 720
 cctcagctatt ttttagggac cttatgcaat ttctttttct tttgaaaagt tatctactgc 780
 ccttcttggga agtttgcagg attggatggg aacaaattca gaggatctta ggtgctggct 840
 tgtggagaca aaaggaggga aatgggtaga gcctgtttgt cttgcttccc cagagataga 900
 atgtgaagac acgcgctaga aatcgagtc ctggccagag acgttatggt cattgtgagg 960
 gactggtggc attgttccct tttgaggggc tggggggact caaattgggt gctgttttca 1020
 cacagatgtg ttggtttgtg gtccaacttc tttatctgaa aaagccagt agaaaacatt 1080
 tttgatttga tttttctaaa ctatctacca tattttaagt gtagcagctt tgactttgca 1140
 ataacgtggc aagtatctga tttctccttt gaggcagagg tttaagtgtg gccctgttac 1200
 acttgtttga tacctttttc atgacagctc cagtatagat cagttggtac agaaatacat 1260

gaacacattt	tgatagggct	tatttcacac	aaagaagttt	atgggtattt	gtgtgggggtg	1320
gtgttggtat	atattattgt	ctttaagggg	aaagaagcta	taagattcgc	tgacagccaa	1380
agtatcattt	agaaaagtga	agcaacaaga	tttaggttga	tgaaagatac	atgagtttgc	1440
attttgacct	gttcagtgct	tgtcttccag	cacggtgtgt	acacttcttc	aaaattgtac	1500
acagtttgct	aattagaaat	atcttggaaa	gcctcatggt	cactaatttt	caactagcat	1560
caggatattt	gaaaacgtgt	gtctggatat	taactcttgt	ttaaactgaa	tgtatgatat	1620
tttggttagaa	tggaaaagta	ctatcttgtt	aatttaagta	ttttaaatat	agttgtatat	1680
ttttcttaaa	aaaaaaaaaa	aaaaaaaaaa	aaaggcggtg	cgctctagag	gatcccgga	1740
ggggcccan	attacgcgtg	agcggt				1766

<210> 12

<211> 2667

<212> DNA

<213> Homo sapiens

<400> 12

ccccgggtcga	cccacgcgtc	cgccacgcgt	tccgaccgag	ccctttgtga	gggctgtgag	60
ctgcgcctga	cggtggcacc	atgagcagct	cagggtgggc	gcccggggcg	tccgccagct	120
ctgcgcgcgc	cgcgaggaa	gagggcatga	cgtgttggtg	ccgtggctg	tgtgcctgt	180
ctgggtgtgt	gggggcagtc	tcttgccgca	tctctggcct	cttcaactgc	atcaccatcc	240
acctctgaa	cattgcggcc	ggcgtgtgga	tgatgatggc	ggctgttccc	atcgtcatca	300
gcctgacct	gaccacgctg	ctgggcaacg	ccatcgccct	tgctacgggg	gtgctgtacg	360
gactctctgc	tctgggcaaa	aaggcgcatg	cgatctccta	tgccaggatc	cagcagcaga	420
ggcagcaggc	ggatgaggag	aagctcgccg	agaccctgga	gggggagctg	tgaagggtg	480
ggcgccctc	cctccctgtc	ccctcttctg	gctctgtgtg	ggtccaagtg	aggcctggac	540
tgtccacgct	gaggcacagc	ctggagaggg	gcctttgcac	gtgtccctac	acctggagtc	600
ctctgtctct	ttctccagac	tggcttaagc	caggagccac	tggctgtctg	tgtgagggtc	660
tgggtgtctg	gacttgaggc	agagcctgca	gcagctgtgt	ggacactacc	cagccctact	720
cctctgtctg	gtgggtctgc	agatctcaca	ccacagacag	ggctgcctgt	gacctgctgt	780
gacctgggag	cagcttcccc	tggagatgct	ggtcctggct	tgaggggagg	ggcaagtggg	840
acctgcccac	ctgggcactg	agcagaggga	cctccccacg	ctctcttagc	aggtggagcc	900
ccagggcctg	ggacagcctg	ccgtgccag	caacctccca	ctgctgccta	gggtgcagcg	960
cccactgtca	ccctgccttc	tggagaagcc	cacagggtct	ctaagggtga	ccccgggtacc	1020
tggaaactgca	gccttggcag	tgactggaca	gctgggtggg	ggatgtctcc	tgttggccct	1080
gggaaccttg	gacaggccac	ctcaaggccc	ctcggctgcc	cctcctccct	gggcctgtct	1140
gggcccctag	gttctgccc	tcaccccccg	ccctgtctgg	ccttgggtgt	aagggaagtgg	1200
ggagagcagg	ctctccctgg	caccgagggt	gcccaccctc	tcctgtgtgt	ggccccgtca	1260
acatcagcca	cagcccagcg	ccattagtgg	gttagtgggt	ctgacctcag	ccccactcag	1320
gtgctcctgc	tggcctgccc	aagccctgcc	ctcaggggagc	ttctgccttt	taagaactgg	1380
gcagaggcca	cagtcaacct	cccacacaga	gctgtcccca	ctgccctggg	tgccaggctg	1440
tccggagcca	ggcctaccca	gggaggatgc	agagagctgg	tgcccaggat	gtgcaccccc	1500
atattccctc	tgccctgttg	cctcagcccg	ctggcctctc	tgaccgtgag	gctggctctc	1560
agccatcggt	cagggtgcctg	gtcgggcctg	gcttagccca	ggtgggggtt	ggcagaagcg	1620
ggcgggtgtg	gaagatattc	catctggggc	caaccccagg	ctgggcctgc	gctgagcttc	1680
tggagcgcag	gtactgggtc	ttgctaagtg	aactgtttcc	caggaaacac	tctcggggccc	1740
atctgcgtct	gaggctggga	gtggcatctg	aggccggggg	tggcatctga	ggccaggagt	1800
ggcaggctgg	tgggtggggc	gtgggggttt	ctgggccttg	cccagtaact	ccctggggac	1860
ttggtgggtc	cctgggtcag	cagcatccca	ccctggggag	tctggccagc	tgagccccag	1920
ggtggcaggg	gcattatagc	ctggtggaca	tgtgccttca	gggttcctcc	ggggccacct	1980
tcctcaggcc	agtgtgggt	tcaaagggtc	gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	2040
gtatgtatat	gtgtgtgggt	gcacacatct	gtccactgta	tgacgtgaga	cctgtctacc	2100
tcccacaagg	agcaagggtc	ctgcccgcgc	tctgtctatt	cctaccaggg	tagtgggacc	2160
ccggggcccc	ttctgcctgg	cttgcctgtc	tctgcctttt	ccagaggggt	ctcactgaca	2220
gccagagaca	gcaggagaag	ggttggctgt	ggatcaagga	aggctgcccc	tgtaccctgt	2280
ggggaaatgg	tgggtgcagt	gctggatgca	gaggtggaag	gcccgtgggc	acaggcgaga	2340
gtgggcgtgt	cacctgtccc	aggttcccag	caagtctgca	gctgtgcagt	cctgggggtc	2400
ctgacctgtg	cgcccagggg	gcgtgtctgc	cagcaggggc	cctgccttgc	aaggaaacgtc	2460
tcttcggggc	ctggggcgcg	tcctgcctgg	tctgggtgtg	gtgtggcgcc	cttctcctct	2520
tgtttgttcc	tctgtgttct	gtgtgcgtct	taagcaataa	agcgtggccg	tggctcgcca	2580
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2640

aaaaaaaaa aaaaaaaaaa aaaaaaa

2667

<210> 13
<211> 2170
<212> DNA
<213> Homo sapiens

<400> 13
ggcacgaggt ccggtcccaa aggtgggaac gcgtccgccc cggcccgcac catggcacgg 60
ttcggcttgc ccgcgcttct ctgcaccctg gcagtgctca ggcgcgcgct gctggctgcc 120
gagctcaagt cgaagagttg ctccggaagt gcagctcttt acgtgtccaa aggcctcaac 180
aagaacgatg cccccctcca cgagatcaac ggtgatcatt tgaagatctg tccccagggt 240
tctacctgct gctctcaaga gatggaggag aagtacagcc tgcaaaagtaa agatgatttc 300
aaaagtgtgg tcagcgaaca gtgcaatcat ttgcaagctg tctttgcttc acgttacaag 360
aagtctgatg aattcttcaa agaactactt gaaaatgcag agaaatccct gaatgatatg 420
tttgatgaaga catatggcca ttatacatg caaaattttg agctatttaa agatctcttc 480
gtagagttga aacgttacta cgtggtggga aatgtgaacc tggaaagaaat gctaaatgac 540
ttctgggctc gctccttgga gcggatgttc cgctgggtga actcccagta ccactttaca 600
gatgagatgc tggaatgtgt gagcaagatc acggagcagc tgaagccctt cggagatgtc 660
cctcgcaaat tgaagctcca ggttactcgt gcttttgtag cagcccgtag tttcgctcaa 720
ggcttagcgg ttgcgggaga tgtccgtgag caaggtctcc gtggtaaacc ccacagccca 780
gtgtacccat gccctgttga agatgatcta ctgctccac tgccggggtc tctgactgt 840
gaagccatgt tacaactact gctcaaacat catgagaggc tgtttggcca accaagggga 900
tctcgatttt gaatggaaca atttcataga tgctatgctg atggtggcag agaggctaga 960
gggtcctttc aacattgaat cggctcatgga tcccatcgat gtgaagattt ctgatgctat 1020
tatgaacatg caggataata gtgttcaagt gtctcagaag gttttccagg gatgtggacc 1080
ccccaagccc ctccagctg gacgaatttc tctgtccatc tctgaaagtg ccttcagtgc 1140
tcgcttcaga ccacatcacc ccgaggaacg cccaaccaca gcagctggca ctagtttgga 1200
ccgactgggt actgatgtca aggagaaact gaaacaggcc aagaaattct ggtcctccct 1260
tccgagcaac gtttgcaacg atgagaggat ggctgcagga aacggcaatg aggatgactg 1320
ttggaatggg aaaggcaaaa gcaggtacct gtttgacgtg acaggaaatg gattagccaa 1380
ccagggcaac aaccagaggg tccaggttga caccagcaaa ccagacatac tgatccttcg 1440
tcaaatcatg gctcttcgag tgatgaccag caagatgaag aatgcataca atgggaacga 1500
cgtggacttc tttgatatca gtgatgaaag tagtgagaa ggaagtggaa gtggctgtga 1560
gtatcagcag tgcccttcag agtttgacta caatgccact gacctgctg ggaagagtgc 1620
caatgagaaa gccgacagt ctgggtgtccg tccctggggca caggccctacc tccctactgt 1680
cttctgcatc ttgttccctg ttatgcagag agagtggaga taattctcaa actctgagaa 1740
aaagtgttca tcaaaaagtt aaaaggcacc agttatcact tttctaccat cctagtgact 1800
ttgcttttta aatgaatgga caacaatgta cagtttttac tatgtggcca ctggtttaag 1860
aagtgtgac tttgtttctc attcagtttt gggaggaaaa gggactgtgc attgagttgg 1920
ttcctgctcc ccaaacctatg ttaaacgtgg ctacagtgtg ggtacagaac tatagttagt 1980
tgtgcatttg tgattttatc actctattat ttgtttgtat gtttttttct catttcgttt 2040
gtgggttttt ttttccaact gtgatctcgc cttgtttctt acaagcaaac cagggtccct 2100
tcttggcagc taacatgtac gtatttctga aatattaaat agctgtacag aaaaaaaaaa 2160
aaaaaaaaa 2170

<210> 14
<211> 1190
<212> DNA
<213> Homo sapiens

<400> 14
gcgcgagacg ccggaaccag gatcgacccc agctgwccaa gaagttctgt gaggccagct 60
ggaggtttct ctctacactg tccctcctcg tgggcggcct ctccggtcctg taccacgagt 120
catggctgtg ggcaccagta atgtgctggg acaggtaccc aaaccagact ctgaagccat 180
ccctgtactg gtggtaacct ttggagctgg gtttctacct ctactgcta atcaggctgc 240
cctttgatgt caagcgcaag gatttcaagg agcaggtgat acaccacttc gtggcgggtca 300
tcctgatgac ctctccttac agtgccaacc tgctgcgcat tggctctctg gtgctgctgt 360
tacaygattc ctctgactac ctgctggagg cctgtaagat ggtcaactac atgcagtatc 420

090929 070607
T020/0 0625090

```

agcaagtgtg cgacgctctc ttctcatctt tctcctttgt cttcttctac acccgactgg 480
tctcttttcc caccagatc tcctacacca catactacga gtccatcagc aacagggggcc 540
ccttcttcgg ctactacttc ttcaacgggc ttctgatgtt gctgcagctg ctgcacgtgt 600
tctgggtcttg cctcattctg cgcattgctt atagcttcat gaagaagggc cagatggaga 660
aggacattcg tagtgatgta gaagaatcag actccagtga ggaggyggcg gcggcccagg 720
aacctctgca gctaaagaac gggrcagctg gagggcccag gccagcccc actgatggcc 780
ctcggagccg ggtggccggg cgtctgacca acaggcacac aacagccaca tagccgggcg 840
gggctggctg taaggggttg ccccccgcc agtgcttgg atatttctg ggtgactgga 900
ctggcgcccc tggggcacct ttctggagac agggagggcc ccaccgggg tgggtgggaa 960
ggctgatgat ctgtctccag ccccttctt ctgcccacc rcccttctt cctctgggca 1020
actggacaga tctggsagcc agcagctgga tgctgtggct ggccagagac acctccaggc 1080
tgtrgcctgg gggctggggg gagccccagg ctgaaaaggg tccaattaaa acaaatggag 1140
ccaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaactcgag 1190

```

```

<210> 15
<211> 1735
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (1002)
<223> n equals a,t,g, or c

```

```

<400> 15
tcgacccacg cgtccggcgc ggatcagctt ccagcccagt cggcccggcc cgggggcmat 60
ggagctccga gcgccggatc gcgagcctcc tgcgaacccc agcctgcacg cccggttagc 120
attcggccgg gagatgcggc agtggaatct ggaaggcgcg tgaaaaacct acgtcctgcc 180
ctcgcccggc ctctccattc gtcccccggg tagagagggt cccggctccc acccttccc 240
agccccagcc ctggagacag cagcccctag actactgagg gacagcgaca gcatgaaggc 300
tcogggctcg ctctgtctca tcactctgtg ctccgtggtc ttctctgccc tctacatcct 360
cctgtgctcg tgggcccggc tgcccctctg cctggccacc tgccctggacc accacttccc 420
cacaggctcc agggccactg tgccgggacc cctgcacttc agtggatata gcagtgtgcc 480
agatgggaag ccgctggtcc gcgagccctg ccgcagctgt gccgtggtgt ccagctccgg 540
ccaaatgctg ggctcaggcc tgggtgctga gatcgacagt gccgagtgcg tgttccgcat 600
gaaccaggcg cccacogtgg gctttgaggg ggatgtgggc cagcgcagca ccttgcgtgt 660
cgtctcacac acaagcgtgc cgtgctgct gcgcaactat tcacactact tccagaaggc 720
ccgagacacg ctctacatgg tgtggggcca gggcaggcac atggaccggg tgctcggcgg 780
ccgcacctac cgcacgctgc tgcagctcac caggatgtac cccggcctgc aggtgtacac 840
cttcacggag cgcattgatg cctactgcga ccagatcttc caggacgaga cgggcaagaa 900
ccggaggcag tcgggtcctt tcctcagcac cggctggttc accatgatcc tcgcgtgga 960
gctgtgtgag gagatcgtgg tctatgggat ggtcagcgac anctactgca gggagaagag 1020
ccacccctca gtgccttacc actactttga gaaggcccg ctatagtagt gtcagatgta 1080
cctggcacac gagcaggcgc ccgaagcgc ccaccgcttc atcactgaga aggcgttctt 1140
ctcccgctgg gccaaagaaga ggccatcgt gttcgcccat ccgtcctgga ggactgagta 1200
gcttcgctcg tcctgccagc cgcctatgcc ttgcgaggcc tccgggatgt cccatcccaa 1260
gccatcacac tccacaaaaa catttaattt atggatcctg cctcctgcca cgtgctgggt 1320
ggacctaaag ttcttcccca cccccattst ggcgacaytt ggagccatct caggcctcca 1380
ctccctgagt aattcatggc atttgggggc tcaccccacc tccaggtct gtcaagtggc 1440
ctttgtccct gggctgatgg cccccaactc accagatca tgaccttggt ccagtctgg 1500
tctccctcc ccagccgccc ctaccacctt ttggtgccac acttctcagg ctggccgccc 1560
tggttggggc agccgagagc ctggggttca ttggtgaagg ggccctggag ttgtgactgc 1620
cggggccgta tcaggaacgt acgggtaaac gtgtgttttc tggaaaaaaa aaaaaaaaaa 1680
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaac tcgag 1735

```

```

<210> 16
<211> 1274
<212> DNA
<213> Homo sapiens

```

<220>
 <221> SITE
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1258)
 <223> n equals a,t,g, or c

<400> 16
 ctacnccgaa caaaatctgg agctccaccc gcggtggcgg ccgctctaga actagtggat 60
 cccccgggct gcaggaattc ggcacgagga gccatcttgc agccgtccat atggcagcct 120
 ggggtcttccc gttgctttca gtcacccaca cargetctgc acaggccagt cctgaaatct 180
 gggtaactca gtcagaagggt ggtgatcagg gcgtagcttg tgaarggggt ggggggtgtgt 240
 tragcacact ggatcgtatt gaattgtgtt tcctaagtga ccgtgctagc tcaggctgca 300
 rtgacaaaac accacagact ggggtcttat tcctgggggc tggcatttgc catgaagggtg 360
 tgggcagggc tggttcctcc cgagccctct ctctggggcc tgcargtgcc gtctttccgt 420
 ctcttccctg tgcttcccg gggccatcct gcgtgtgtct gtgtcctcgg ctctcctgga 480
 ramcctaccg ttctcaagga ccctgggtcat attggatcag ggccacccta atggcctcat 540
 gtcactgcag ttacctytaa aggcggttaa agtcccmagc tccaagtata wtcmtattcc 600
 aaggcactgg ggtcgggatt tcaacttwcg aactctgagc ggragatcaa ttcaggccat 660
 ggcaggctaa agtataatac taaaatcaca aatgtagcag cctgcttttc cgtagaatgt 720
 tgctgtgtgt attttttgtt ttctgtggca aaataaaaagt gggctactct tgtaaaattt 780
 ggcagttttt aatggagaaa gcaacttaat tttgctagcc ttttaagaaat ggcatcttga 840
 catatcaggc cttcatttta ttccaacaag aatgcagaat atgtttttaa aataaccaag 900
 aatcccccta gtgcttcata aaataagtga aaacctgacc ctgatttttg tagcaaaaaa 960
 tgaagtaaac gtggaaaatg aagaggaaat tctagtagga gacgatgggg tcataagtca 1020
 gaaattaaag agttgtttgc tccccaccct cccgccagcc ctacacctac cctgctgtg 1080
 gggcctctgc ccagcctggg ccaaggccgt ggctccccctg gtgccatcct gtccgcagtc 1140
 ggctccctgt ccacggcggtg tggctccttc aggacatcag tcacctgttg tccatgtggc 1200
 acatcctcgt gccgaattcg atatcaagct tatcgatacc gtcgacctcg aggggggnc 1260
 ggaaccggg tcga 1274

<210> 17
 <211> 1921
 <212> DNA
 <213> Homo sapiens

<400> 17
 cgcccgccgc cgggcgcccg aagccgggag ccgcccgcct gggggcctgc ctgggagcct 60
 gctccctgct cagctgcgcg tcctgcctct gcggtcttgc cccctgcac ctgtgcagct 120
 gctgccccgc cagccgcaam tcaccgtga gccgcctcat cttcacgttc ttctcttcc 180
 tgggggtgct ggtgtccatc attatgctga gcccgggcgt ggagagtcag ctctacaagc 240
 tgccctgggt gtgtgaggag ggggcccggg tccccaccgt cctgcagggc cacatcgact 300
 gtggctccct gcttggttac cgcgctgtct accgcatgtg cttcgccacg gcggccttct 360
 tcttcttttt caccctgctc atgctctgcg tgagcagcag ccgggacccc cgggctgcca 420
 tccagaatgg gttttggttc ttttaagttc tgatcctggg gggccycacc gtgggtgctc 480
 tctacatccc tgacggctcc ttcaccaaca tctggttcta cttcggcgtc gtgggctcct 540
 tcctcttcat cctcatccag ctggtgctgc tcatygaact tgcgcactcc tgggaaccagc 600
 ggtggctggg caaggccgag gagtgcgatt cccgtgcctg gtacgcaggc ctcttcttct 660
 tcactctcct cttctacttg ctgtcgatcg cggccgtggc gctgatgttc atgtactaca 720
 ctgagcccag cggctgccac gagggcaagg tcttcatcag cctcaacctc accttctgtg 780
 tctgcgtgtc catcgctgct gtccctgcca aggtccagga cggccagccc aactcgggtc 840
 tgctgcaggc ctcggtcatc accctctaca ccatgtttgt cacctgggtc gccctatcca 900
 gtatccctga acagaaatgc aacccccatt tgccaaccca gctgggcaac gagacagttg 960
 tggcaggccc caggggctat gagacccagt ggtgggatgc cccgagcatt gtgggctca 1020
 tcatcttcc cctgtgcacc ctcttcatca gtctgcgtc ctcagaccac cggcagggtga 1080
 acagcctgat gcagaccgag gagtgccac ctatgctaga cgccacacag cagcagcagc 1140

```

agcagggtggc agcctgtgag ggccgggacct ttgacaacga gcaggacggc gtcacctaca 1200
gctactcctt cttccacttc tgcctgggtgc tggcctcact gcacgtcatg atgacgctca 1260
ccaactggta caagcccgtt gagaccgga agatgatcag cacgtggacc gccgtgtggg 1320
tgaagatctg tgccagctgg gcagggtctgc tcctctacct gtggaccctg gtagcccccac 1380
tcctcctgcg caaccgcgac ttcagctgag gcagcctcac agcctgccat ctgggtgcctc 1440
ctgccacctg gtgcctctcg gctcgggtgac agccaacctg cccctcctcc acaccaatca 1500
gccaggctga gccccacccc ctgccccagc tccaggacct gccctgagc cgggccttct 1560
agtcgtagtg ccttcagggt ccgaggagca tcaggctcct gcagagcccc atccccccgc 1620
cacaccaca cgggtggagct gcctcttctt tccctcctc cctgttgccc atactcagca 1680
tctcggatga aagggtctcc ttgtcctcag gctccacggg agcggggctg ctggagagag 1740
cggggaactc ccaccacagt ggggcatccg gcactgaagc cctgggtgtt ctgggtcacgt 1800
ccccagggg accctgcccs cttcctggac ttcgtgcctt actgagtctc taagactttt 1860
tctaataaac aagccagtgc gtgtacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1920
a 1921

```

```

<210> 18
<211> 692
<212> DNA
<213> Homo sapiens

```

```

<400> 18
ggcacgagtg ttcttcagca accctacctg cttctccaaa ctgcctaaag agatccagta 60
ctgatgacgc tgttcttcca tctttactcc ctggaaacta accacgttgt cttctttcct 120
tcaccaccac ccaggagctc agagatctaa gctgctttcc atcttttctc ccagccccag 180
gacactgact ctgtacagga tggggccgtc ctcttgctc cttctcatcc taatccccct 240
tctccagctg atcaacctgg ggagtactca gtgttcctta gactccgtta tggataagaa 300
gatcaaggat gttctcaaca gtctagagta cagtcctctt cctataagca agaagctctc 360
gtgtgctagt gtcaaaagcc aaggcagacc gtcctcctgc cctgtgggga tggctgtcac 420
tggctgtgct tgtggctatg gctgtggttc gtgggatgtt cagctggaaa ccacctgcca 480
ctgccagtgc agtgtggtgg actggaccac tgccacctga cctgacaggg 540
aggaggctga gaactcagtt ttgtgaccat gacagtaatg aaaccagggt cccaaccaag 600
aaatctaact caaacgtccc acttcatctt ttcattcctt gattcttggg taataaagac 660
aaactttgta cctcaaaaaa aaaaaaaaaa aa 692

```

```

<210> 19
<211> 1500
<212> DNA
<213> Homo sapiens

```

```

<400> 19
ccccggggt gcaggaattc ggcacgagcg agtttttact tcttaataa aattgggtttt 60
ggtgctcact ttggcagcac atatactaaa attggaacta gacagagatt ggcattgccc 120
ccgagcaaga atgacacgca aattcgtgaa gccttcaata aaaaataaaa taattttgtt 180
ttcccaatct gtgtctcttt taagcccccag aggatagaaa tgtcctaaaa taagaaatta 240
aataagaggg gaagcccccag gatctgttct ggtttttttt ggtgggtggtg gtggtggtgt 300
tttttaatgg gtctctcagg attccaccag acccacttcc cagccgctgt gtggtctggg 360
cctgagaaca ccaagccccc cgaccgcggg cccacgccc cccaccaccc agcctcggca 420
gcgttttccc aggtatcaca tggtaatgaa ggcattccatc ttctccaga cacacactgg 480
gccctgcgac cctcccaggg cccacacaat ggccacagc gccgcggccc caccacctgt 540
tggattttcc cagggaaggg agtgaggggg tggaggggaa gggcagtcct tctcttccca 600
gccccagcc ccatttgcac cctggtcgca agagtacgtc agcaggggca cccatgtcct 660
cggactctca gtccatctc agcaccctgt ttctcatcc tcaaactgca aggtggttgg 720
gaggattcta atgggaatgg tagtaaggac acgtcagga actgtggatt gccagacaaa 780
gagagcaaaa ggctgggctt acaggcgtga gccacaacgt ccggccaggc taatttttta 840
atatttttgt agagacggga tctcactgta ttgcccaggc tgggtctcaa ctcctatcct 900
caagcagtc tcttctctca gcctcccaga gtgctgggat tgcaggcatg agaccccgca 960
cagtctgttt ctacagcggc ctctctcgcg cttcctctct tctggcctca tggagaaacc 1020
ccagaaagag catagactct ggaattagag aaacagggtt tgggaattctg tgccattctc 1080
tcctgtgtgt gtttggccaa ctgattcaaa ggctgtttcc tcatttgtaa aatggagata 1140

```


tatagtcagt	ggtccttgtt	attatctccc	tgctacctgc	ccccttccca	aacaccagcc	1200
agtctttctct	gctctggcca	aattgataat	agctttttgtt	tttcaagcct	aaaaccagct	1260
tcttccagtt	tgctcagcag	ctatttgcta	atcatccaga	gtgacctagg	acgtattttac	1320
atgagcggaa	gagccactcg	gggagagtgc	tgctgggaat	gcctccacag	agatgctgat	1380
tgtagcgcag	ctgcgtaagc	ctcagatttt	tctgttcagg	cccaaagcgc	cagcacaatc	1440
tgtgggaaag	ttgcaacaga	gaaagcaaaa	aaaaaaaaaa	aaaactcgag	ggggggcccg	1500

<210> 20

<211> 2136

<212> DNA

<213> Homo sapiens

<400> 20

ggacgagcag	cgcagtcgc	cactggctgc	ctgaggtgct	cttacagcct	gttccaagtg	60
tggtttaatc	cgtctccacc	accagatctt	tctcctgga	tctctctgct	aagaccgctg	120
ccatgccagt	gacggtaacc	cgcaccacca	tcacaaccac	cacgacgtca	tcttcggggc	180
tggggctccc	catgategtg	gggtcccctc	gggacctgac	acagcccctg	ggctctcctc	240
gcctgctgca	gctgggtgtc	acctgcgtgg	ccttctcgct	ggtggctagc	gtgggcgcct	300
ggacggggtc	catgggcaac	tggtccatgt	tcacctgggtg	cttctgcttc	tccgtgaccc	360
tgatcatcct	catcgtggag	ctgtgcgggc	tccaggcccc	cttcccctg	tcttgcgcca	420
acttccccat	caccttcgcc	tgctatgcgg	ccctcttctg	cctctcgccc	tccatcatct	480
acccaccac	ctatgtccag	tccctgtccc	acggccgttc	gcgggaccac	gccatcgccg	540
ccaccttctt	ctcctgcac	gcgtgtgtgg	cttacgccac	cgaagtggcc	tggaccgggg	600
cccgcccg	cgagatcact	ggctatatgg	ccaccgtacc	cgggctgctg	aagggtgctg	660
agaccttcgt	tgccctgcac	atcttcgcgt	tcacagcgca	ccccaacctg	taccagcacc	720
agccggccct	ggagtgggtg	gtggcggtgt	acgccatctg	cttcaccta	gcggccatcg	780
ccatcctgct	gaacctgggg	gagtgcacca	acgtgctacc	catccccttc	cccagcttcc	840
tgtcggggct	ggccttgctg	tctgtccctc	tctatgccac	cgccttgggt	ctctggcccc	900
tctaccagtt	cgatgagaag	tatggcgcca	gcctcgcgcc	tcgagagatg	taagctgcag	960
ccgcagccat	gcctactacg	tgtgtgcctg	ggaccgcga	ctggctgtgg	ccatcctgac	1020
ggccatcaac	ctactggcgt	atgtggctga	cctgctgca	tctgcccacc	tggtttttgt	1080
caagggtctaa	gactctccca	agaggctccc	gttccctctc	caacctcttt	gttcttcttg	1140
cccgagtttt	ctttatggag	tacttctttc	ctccgccttt	cctctgtttt	cctcttcttg	1200
tctccctccc	ctcccacctt	tttctttcct	tcccattccc	ttgcaactct	accagttctt	1260
ggatgcatct	tcttccctcc	ctttcctctt	gctgtttcct	tctgtgtgtg	ttttgttgcc	1320
cacatcctgt	tttcaccctt	gagctgtttc	tctttttctt	ttctttcttt	tttttttttt	1380
tttttaagac	ggattctttac	tctgtggccc	aggctggagc	gcagtgggtg	gatctcgact	1440
cactgcaacc	ccgcctcctc	gggttcaagc	gattctcctg	ccccagcctc	ccaagtagct	1500
gggaggacag	gtgtgagctg	ccgcaccacg	cctgtttctc	tttttccact	cttctttttt	1560
ctcatctctt	ttctgggttc	ctgtcggtct	tcttatctgc	ctgttttgca	agcaccttct	1620
cctgtgtcct	tgggagccct	gagacttctt	tctctccttg	cctccaccca	cctccaaagg	1680
tgctgagctc	acatccacac	cccttgccag	cgtccatgcc	acagccccc	aagggggccc	1740
attgccaaag	catgcctgcc	caacctcgct	ctgccttagt	cagtgtgtac	gtgtgtgtgt	1800
gtgtgtgttt	gggggggtgg	gggtgggtag	ctggggattg	ggcctctttt	ctcccagtgg	1860
aggaaggtgt	gcagtgtact	tcccccttaa	attaaaaaac	atatatatat	atatatttgg	1920
aggtcagtaa	tttccaatgg	gcgggaggca	ttaagcaccg	accctgggtc	cctaggcccc	1980
gcctggcact	cagccttgcc	agagattggc	tccagaattt	ttgccaggct	tacagaacac	2040
ccactgccta	gaggccatct	ttaaaggaagc	aggggctgga	tgcccttcat	cccaactatt	2100
ctctgtggta	tgaaaaagaa	aaaaaaaaaa	aaaaaa			2136

<210> 21

<211> 1547

<212> DNA

<213> Homo sapiens

<400> 21

ggcagagccc	agttcatctc	attgggactg	gttagacagt	gggtgcagcc	cacagaggga	60
gagcagaagc	aggggtgggg	gttgccctac	ctgggaagcg	caagggtgtg	aggaaactccc	120
tcctctagcc	aaggcaagcc	atgaaggact	gtgccgtgag	ggacggtgct	atctgaccca	180

```
<210> 22
<211> 2657
<212> DNA
<213> Homo sapiens
```

<400> 22						
ggcacgagga	agaagcttca	gctgattgag	ggcaggcagc	acagatcaac	atggagcccc	60
accatggtag	tctctgttcag	gtgggtccca	gtcacagatg	cctattggca	gattctcttc	120
cctgctctca	aggtaccagg	aaacctgaag	gagctggacc	taagctggaa	ctcgctgagc	180
tccgtcagac	tgaagagtct	ttgtaagacc	ctgagacgcc	ctcgctgcct	cctggagacc	240
ctgcggttg	ctggctgttg	cctcacagct	gaggactgca	aggaccttgc	ctttgggctg	300
agagccaacc	agacctgtac	cgagctggac	ctgagcttca	atgtgtctac	ggatgtctgga	360
gccaacaccc	tttgcacag	actgagacag	cagagactgca	agctacagcg	actgacactg	420
gtcagcttgg	gctccacgtc	tgactgtctgc	caggacctgg	cctctgtgct	tagtgccagc	480
cccagcttga	aggagctaga	cctgcagcag	aaacaacctg	atgaccttgg	gtctgcactg	540
ctctgtgagg	ggctcagcat	cctgcctgca	aactcatacg	cctggggctg	gaccagacaa	600
ctctgagtga	tgagatgagg	caggaactga	gggcccctgga	gcaggagaaa	cctcagctgc	660
tcatcttcag	cagacggaaa	ccaagtgtga	tgaaccttac	tgaggcctgg	atacgggaga	720
gatgagtaat	agcacatcct	cactcaagcg	gcagagactc	ggatcacaga	gggcggcttc	780
ccatgttgct	caggctaatt	tcaaacctct	ggacgtgagc	aagatctctc	caattgtctga	840
gattgcacag	gaagctccc	cagaggtagt	acgggtgga	ctcttgtgca	tgccttctcc	900
tgcctctcaa	ggggacctgc	atacgaagcc	tttggggact	gacgatgact	tctggggccc	960
cacggggcct	gtggctactg	aggtagttga	caaagaaaag	aacttgtacc	gagttcactt	1020
ccctgtagct	ggctcctacc	gctggtccca	cacgggtctc	tgctttgtga	tgagagaagc	1080
gggtgacctt	gagattgaat	tctgttgttg	ggacacgttc	ctgggtgaga	tcaaccaca	1140
gcacagctgg	atgggtgcag	ggcctctgct	ggacatcaag	ctgtagcctg	gagctgtgga	1200
agctgtgcac	ctccctcact	ttgtggctct	ccaagggggc	catgtggaca	catccctgtt	1260
ccaagtggcc	cactttaaag	aggaggggat	gtccttgga	aagccagcca	gggtggagct	1320
gcatacacata	gtttctggaaa	accccagctt	ctcccctctg	ggagtccctc	tgaaaatgat	1380
ccataatgcc	ctgcgcttca	tcccgtcac	ctctgttggt	tgtctttacc	acgcgtcca	1440
tctaaggaa	gtgaccttcc	aacctctacct	gatcccaagt	gactgttccc	tctggtaagg	1500
actggagctc	tgctatcgaa	gccttgagga	agaccagctg	ttctcggagt	tctacgttgg	1560
ccacttggga	tcagggatca	ggctgcaagt	gaaagacaag	aaagatgaga	ctctggtgtg	1620
ggaggccctt	gtgaaaccag	gagatctcat	gcctgcaact	actctgtatc	ccagagcccg	1680
catatcogta	ctcttcacct	tggatgcccc	gcagttgtct	cactttgttg	atccagtatc	1740
aaagcagctc	ataagcccgag	tqacatccgt	qaaqatttct	ttqgacaaac	tqcatqgaca	1800

```
<210> 23
<211> 2466
<212> DNA
<213> Homo sapiens
```

[illegible]

taagaggcca	tggatttcaa	gaagccagac	aatccattct	ttcagataat	gataaaaaag	2340
aaaccattta	ttttatttct	aagtatagaa	tgaaacattt	atagttgccc	aaattttggt	2400
accttttagg	agaaaaatac	agattttttt	gttggttaaaa	ataaacttaa	aaaaaaaaaa	2460
aaaaaa						2466

<210> 24
 <211> 2495
 <212> DNA
 <213> Homo sapiens

<400> 24						
aagagcctgg	ggccagaggg	ccagacagcc	acagagctcc	tggcgtgggc	aaggetggcc	60
aaggtatggc	acgcccaggg	gcctgggggc	cctgctcctg	ctcctcctgc	tcccagacctc	120
aggtcaggaa	aagcccaccg	aaggggccaag	aaacacctgc	ctggggagca	acaacatgta	180
cgacatcttc	aacttgaatg	acaaggcttt	gtgcttcacc	aagtgcaggc	agtcggggcag	240
cgactcctgc	aatgtggaaa	acttgcagag	gttccgaggc	aggtgatgaa	ggacgaggac	300
aagccccctg	acagagtgcg	acttcccaag	agcctttttc	gatccctgcc	aggcaacagg	360
tctgttggtc	gcttggccgt	caccattctg	gacattggtc	cagggaactct	cttcaagggc	420
ccccggctcg	gcttgggaga	tggcagcggc	gtgttgaaca	atcgccctgg	gggtttgagt	480
gtgggacaaa	tgcattgtcac	caagctggct	gagcctctgg	agatcgtctt	ctctcaccag	540
cgaccgcccc	ctaacatgac	cctcacctgt	gtattctggg	atgtgactaa	agggaccgtg	600
tgctcctgag	acccaccttg	gaccagtcca	cggtgcatat	cctcacacgc	atctcccagg	660
cgggtctgtg	ggtctccatg	atcttccttg	ccttcaccat	tattctttat	gcctttctga	720
ggcctgcccc	ccctgatggc	catcggcact	gggagtgcga	acagctacgg	cctctacacc	780
atccgtgata	gggagaaccg	cacctctctg	gagctatgct	ggttccgtga	agggacaacc	840
atgtacgccc	tctatatcac	cgtccacggc	tacttctctc	tcaccttctt	ctttggcatg	900
gtggtcctgg	ccctggtggt	ctggaagatc	ttcaccctgt	cccgtgctac	agcgggtcaag	960
gagcggggga	agaaccggaa	gaaggtgctc	accctgctgg	gcctctcgag	cctgggtgggt	1020
gtgacatggg	ggttggccat	cttcaccccc	ttgggcctct	ccaccgtcta	catctttgca	1080
cttttcaact	ccttgcaagc	ccagagaggc	atcacagtct	gactgtgaga	gaaacagcca	1140
agacaggagt	gacgagactc	aacctgttca	gggaagtcac	tagaaaacca	ggcgtcctag	1200
atgcagcggg	tataagcccc	caagaccagg	actggctccc	agcgcgccat	gagagatgtg	1260
tggcttagtg	gctagggcca	ggcagccctg	ggtccaaatc	ctagccccat	ccctgaccca	1320
gcaagtcact	cagctccttc	cgtccctcatt	catcgcgaaa	ttgggataat	cccgtactta	1380
tctcaccagc	tttttttttt	tttttaattg	agatggagtc	ttgctctgtc	accagggtg	1440
gagtgcagtg	gcacgatctc	agctcactgc	gacctccacc	tcctgggttc	aagtaattct	1500
tctggtttca	gcctcctgag	tagctggaac	tacaggcaca	tgcaccatg	cccagctaatt	1560
ttttgaattt	ttagtagaaa	tggggtttca	ccatactggc	caggctgggc	tcaaaactct	1620
gacctcagat	gatctacctg	cctcagcctc	cgaaagtgtc	gggattacag	gcgtgagcca	1680
ctgtgcctgg	cctgccagat	ttcaccaatga	acaatgacaa	tgcataatgt	ggaactacta	1740
ggtcttcaat	atgtgggaac	tatattaata	atcatagaaa	ttatgactgt	aaggccatct	1800
gaggctgtct	ccagggtggag	aatcatgagt	ccatgcctgg	agaatcccag	gggttgatgg	1860
ttggggagaa	atgaactttg	aaactatagc	tgacatcggt	attctttcag	aggttacctt	1920
aatatgtaag	cctgcacact	tcactctact	aagtttccac	tgggtctgag	ttattctgta	1980
tttctctctt	cctctccaat	acaacagagc	ccttggtata	cttgaattgc	ccattgaact	2040
cttctcaata	tttgtcttgc	atatagaggt	ttagttacag	atttccttga	aacatagagt	2100
ttttctaagt	catgtttctg	acttactata	atttctttca	ccccacactt	tcctttttcc	2160
tcttgctgga	gtgcctccca	taataatcct	ttatagaggg	agtgatgggt	gttttgatg	2220
tctgaaaatt	cctctatttt	gctctttctt	ttctgtaata	ggcataggta	gatattttat	2280
ttgaaggctc	ctgttttttca	tttccaagat	ttcgatttgg	ttctttttta	tttcattttt	2340
gaaatgggtg	tgaaatgggt	gcatttttgc	ctttccagc	agttcttgag	tggttacggg	2400
gggtctctct	cctctcagca	gccaccagcc	caggctgccc	cactctctgc	ccaccctttt	2460
ccaggctcac	cgaggcctct	ccttccctaac	aggtg			2495

<210> 25
 <211> 3244
 <212> DNA
 <213> Homo sapiens

0905298.0001

```
<220>  
<221> SITE  
<222> (3243)  
<223> n equals a,t,g, or c
```

<400> 25						
gcgcgcgcgc	gctcggggtgc	agcgcactcn	agcgcacgct	gcgggcctttc	ggcagccgaa	60
cggccgcggc	agttcaggac	aaagaggtgt	gggcaggcca	ctgggcccgc	tggtaacatc	120
atggcacaga	aagtgaacaa	cttcccacca	ttgcccacaa	tcatcccgcg	gaagccatgt	180
ttctacaag	acttcgagc	agatatctct	ccccagcatg	tcagcatgac	caagcgctc	240
tactacctct	ggatgtgact	gacagctcct	tcagtttcat	ggcattcttc	tttaccttca	300
tggctcagtt	ggtcacagc	atcatccagg	ccgtgggcat	cccaggctgg	ggcgtctgcg	360
gctggattgc	taccatctcc	ttcttcggaa	cgaacattgg	ctcggcgggtg	gtgatgctaa	420
ttcccactgt	catgttcaca	gtgatggccg	tcttttccct	catcgccctc	agcatggttc	480
ataaaatttta	ccgggggaagt	ggggggagtt	tcagcaaaag	tcaggaggag	tggaccacag	540
gggcctggaa	gaatccacat	gtgcgacagg	cagcccagaa	cgcagccatg	ggggcagccc	600
aggggtgccat	gaatcagcct	cagactcagt	attccgccac	cccgaattac	acgtactcca	660
atgagatgtg	aaccagccac	gcctaccagg	tggcagagct	ggggccattg	ggacaggggg	720
ctcaagccac	atcgtcattt	gtggttacca	agcagggttc	ccccttccct	ttctccttc	780
cctactttgt	acaaaggacc	agagtttatat	atatatatat	atgtatatgt	ctgtacccca	840
gccccacact	ttcagattct	gctcttggca	ctcagctgtg	ggctgcaogt	ggagctgtcc	900
cgtgcggtag	tgtctgtgtc	tgtgtcccct	cgtgaaatag	tgtgcagtgg	aggtctcttg	960
tgggtgctaga	tgtgtgttta	gagctaacc	agccccacc	cccacctccc	acctgccctc	1020
cttgccctctg	gcccccttga	ccctggccca	gggaaccttc	acggggccag	gggaggcata	1080
gcagaaagac	tggccccctc	ctagggttat	gagctggaac	tgtttctact	ttcagttctc	1140
ctgggaagta	acagtactta	gcactcttgg	tgggtgggtg	gagggtgggt	acaggcccagg	1200
gatatctcct	tgctcttttg	atccctccag	gcctcgctct	cttcagcttc	ctctcccctc	1260
atctgttctc	tgcattgcaca	ttccctgtgc	aatcttccct	tgcccatggt	ctgtctatct	1320
ctttcctatg	tggcttttct	ttgtcttccc	caaggctgag	tgtcccagtt	ttatctgtctc	1380
ctgagactga	gccagatctc	ccaaatctaa	tctgatttac	agttcaagga	agctgatggg	1440
gagctgggccc	ttacccttga	tgtaggaggg	gcacacagct	gggggtgcag	agcccacctg	1500
ggtaacctgac	ccccaggggga	tgaaaatgca	aggatgagtc	tgtctggggc	tgagagtttg	1560
atctgcaggg	cagagctcat	cttttctctc	ctctgccttc	tctctctctc	ctcccagag	1620
cccccttgag	ccctcttgcc	tatgtccctc	tgccctctcc	ccatgcccc	agttgctgtg	1680
gcttgattct	gctaccctga	ccccaccatg	tgccagggtg	catctgcctt	actgccttcc	1740
ctgaggagct	gggacatgct	gggcagttgt	cagatgtaaa	ggcacagctg	gagcagaggg	1800
catgtcagta	atgattggct	cctggggaa	gtctggctgg	ctccagcaca	gtgaggcatt	1860
taggtatctc	tcggtgaccg	tggattcct	ggaagcagta	gctggttctg	ttggatctgg	1920
taggtacagg	ctcagagcga	taggcacgga	gggaaggtca	gagtagtaag	caggcagggc	1980
ccagtgaagag	gggagcatgc	cttcccccac	cctggcttgc	tcttggctac	agggcggttc	2040
tgggcacttg	aactcagggc	ccaagcagaa	gcacaggccc	agtctgggct	gcaagcacia	2100
tagcctgaat	gggatttcag	gttaggcagg	gtgggagggg	aggctctctg	gctttagttt	2160
tgttttgttt	tccaaatcaa	ggtaacctgc	tccttctctg	ctacaggcct	tggctcttggc	2220
ttgtctctac	ccagtcggaa	ctccctacca	ctttcaggag	agtgttttta	ggcccctggg	2280
gctgttctct	tccaagcagt	gtgagaacat	ggctgtgtaga	ggctctagct	gtgtgcgggg	2340
cctgaagggg	agtgggttct	cgcccaaaga	gcactctgcc	atttccacc	ttcccttctc	2400
ccaccagaag	cttgocctgag	ctgtttggac	aaaaatccaa	accccaactg	gctactctgg	2460
cctggcttca	gcttggaaac	caatacctag	gcttacaggc	catctgagc	caggggcctc	2520
tggaaattct	cttccctgatg	gtccttttag	tttgggcaca	aaataataat	gcctctcccc	2580
ttcccaactt	tctctcttgg	gagcaattgt	cacagctcct	ggtacactga	aaggtactag	2640
gtctaaqccc	ttcttccctt	ttccctctct	ttccctaccc	cagaactttg	gtcccttctc	2700

```
<210> 26
<211> 1362
<212> DNA
<213> Homo sapiens
```

```
<210> 27
<211> 1381
<212> DNA
<213> Homo sapiens
```

[illegible]

ggaatggggg	ctccgctggc	gctagagcca	tccagaagtg	gcagtgccca	acagcttttg	780
gatgggttcg	taccttttgt	ttctgcctcc	tgctattttt	cttttgactg	aggatattta	840
aaattcattt	gaaaactgag	ccaaggtgtt	gactcagact	ctcacttagg	ctctgctgtt	900
tctcaccctt	ggatgatgga	gccaaagagg	ggatgctttg	agattctgga	tcttgacatg	960
cccatcttag	aagccagtca	agctatggaa	ctaattgcgga	ggctgcttgc	tgtgctggct	1020
ttgcaacaag	acagactgtc	cccaagagtt	cctgctgctg	ctgggggctg	ggcttcccta	1080
gatgtcactg	gacagctgoc	ccccatccta	ctcaggtctc	tggagctcct	ctcttcaccc	1140
ctggaaaaac	aaatgatctg	ttaacaaaagg	actgcccacc	tccggaactt	ctgacctctg	1200
tttcctccgt	cctgataaga	cgtccacccc	ccaggggccag	gtcccagcta	tgtagacccc	1260
cgccccacc	tccaacactg	cacccttctg	ccctgcccc	ctcgtctcac	cccctttaca	1320
ctcacatttt	tatcaaataa	agcatgtttt	gttagtgcaa	aaaaaaaaaa	aaaaaaaaaa	1380
a						1381

<210> 28
 <211> 2527
 <212> DNA
 <213> Homo sapiens

<400> 28						
ggcacgagtc	acagctgagg	aagacctcag	acatggagtc	caggatgtgg	cctgcgctgc	60
tgctgtccca	cctcctccct	ctctggccac	tgctgttgct	gccccctcca	ccgctgctc	120
agggctcttc	atccccccct	cgaaacccac	cacccccagc	ccgccccccg	tgtgccaggg	180
gaggccccct	ggccccacgt	catgtgtgcg	tgtgggagcg	agcacctcca	ccaagccgat	240
ctcctcgggt	cccaagatca	cgtcggcaag	tctgcctgg	cactgcaccc	ccagccaccc	300
catcaggctt	tgaggagggg	ccgcccctcat	cccaataccc	ctgggctatc	gtgtggggtc	360
ccaccgtgtc	tcgagaggat	ggagggggacc	ccaactctgc	caatcccga	tttctggact	420
atggttttgc	agcccctcat	gggctcgcaa	ccccacaccc	caactcagac	tccatgcgag	480
gtgatggaat	gggcttatcc	ttggagaggc	acctgccacc	ctgcggtcat	tctgttccgg	540
gggcccgtgg	gaagggtgtg	acccccagct	ctatgtcaca	attaccatct	ccatcatcat	600
tgttctcgtg	gccactggca	tcattctcaa	gttctgctgg	gaccgcagcc	agaagcgacg	660
cagacctcca	gggcagcaag	gtgcccctgag	gcaggaggag	agccagcagc	cactgacaga	720
cctgtccccg	gctggagtc	ctgtgctggg	ggccttcggg	gactcaccta	ccccacccc	780
tgaccatgag	gagccccgag	ggggaccccg	gtctgggatg	ccccaccca	agggggctcc	840
agccttcagt	tgaaccgggtg	agggcaggca	atgggatggg	agggcaaaga	gggaaggcaa	900
cttaggtctt	cagagctggg	gtgggggtgc	cctctggatg	ggtagcgagg	aggcaggcgt	960
ggcctcccac	agcccctggg	cctcccaagg	gggctggacc	agctcctctc	tgggaggcac	1020
ccctccttct	ccagctctct	caggatctgt	gcctattctt	ctgctgcccc	taactccaac	1080
tctgccctat	ttggtctttt	tatgccacct	tgtctaagac	aactctgccc	tcttaacctt	1140
gattccccct	ctttgtcttg	aacttcccct	tctattctgg	cctacccctt	ggttccctgac	1200
tgtgcccttt	ccctcttccct	ctcaggattc	ccctggtgaa	tctgtgatgc	ccccaatgtg	1260
gggtgcagcc	aagcaggagg	ccaagggggc	ggcacagccc	ccatcccact	gaggggtggg	1320
cagctgtggg	gagctggggc	cacaggggct	cctggctcct	gccccttgca	caccaccccg	1380
aacactcccc	agccccacgg	gcaatccctat	ctgctcgccc	tccctgcagg	gggggcctca	1440
catatctgtg	acttcgggtc	cctgtcccca	cccttgtgca	ctcacatgaa	agccttgcac	1500
actcacctcc	accttcacag	gcoatttgca	cacgctcctg	cacctctctc	ccgtccatac	1560
cgctccgctc	agctgactct	catgttctct	cgtctcacat	ttgcactctc	tccttcccac	1620
attctgtgct	cagctcactc	agtggtcagc	gtttcctgca	cactttacct	ctcatgtgct	1680
tttcccgcc	tgatgttggt	gtgggtgtgc	gcgtgctcac	tctctccctc	atgaacaccc	1740
accacactcg	tttccgcagc	ccctgcgtgc	tgctccagag	gtgggtggga	ggtgagctgg	1800
gggctccttg	ggccctcatc	ggtcatggtc	tctgccatt	ccacaccatt	tgtttctctg	1860
tctccccatc	ctactccaag	gatgccggca	tcacctgag	ggctccccct	tgggaatggg	1920
gtagtggagg	cccagacttc	acccccagcc	cactgctaaa	atctgttttc	tgacagatgg	1980
gttttgggga	gtcgcctgct	gcactacatg	agaaagggac	tcccatttgc	ccttcccttt	2040
ctcctacagt	cccttttgtc	ttgtctgtct	tggctgtctg	tgtgtgtgoc	attctctgga	2100
cttcagagcc	ccctgagcca	gtcctccctt	ccagccctcc	ctttgggcct	ccctaactcc	2160
acctaggctg	ccagggagcg	gagtcagctg	gttcaaggcc	atcgggagct	ctgcctccaa	2220
gtctaccctt	cccttcccg	actccctcct	gtccctcctc	ttcctccctc	cttccctcca	2280
ctctccctcc	ttttgtctcc	ctgcccttcc	ccccctccca	ggttcttccc	tccttctcac	2340
tgggttttcc	accttccctc	ttcccttctt	ccctggctcc	taggctgtga	tatatatttt	2400
tgtattatct	ctttcttctt	cttgtgggtga	tcattctgaa	ttactgtggg	atgtaagttt	2460

caaaatttttc aaataaagcc ttgtgcaagat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2520
 aaaaaaa 2527

<210> 29
 <211> 2081
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (538)
 <223> n equals a,t,g, or c

<400> 29
 ggggttctcaa tggaaaaata ttggttagaca tcagcaacaa cctcaaaatc aatcaatatc 60
 cagaatctaa tgcagagtac cttgctcatt tgggtgccagg agcccacgtg gtaaaagcat 120
 ttaacacccat ctccagcctgg gctctccagt caggagcact ggatgcaagt cggcagggtg 180
 ttgtgtgtgg aaatgacagc aaagccaagc aaagagtgt ggatattgtt cgtaatcttg 240
 gacttactcc aatggatcaa ggatcactca tggcagccaa agaaattgaa aagtaccccc 300
 tgcagctatt tccaatgtgg aggttcccc tctatttgtc tgctgtgctg tgtgtcttct 360
 tgtttttcta ttgtgttata agagacgtaa tctaccctta tgtttatgaa aagaaagata 420
 atacatttcg tatggctatt tccattccaa atcgtatctt tccaataaca gcaacttacac 480
 tgcttgcttt ggtttactcc ctggtgttat tgctgccatt ctacaactgt accgaggnc 540
 caaaataccg tgcattccca gactggcttg accactggat gctttgccga aagcagcttg 600
 gcttggttagc tctgggattt gccttccttc awgtcctctm cmcaottgtg attcctattc 660
 gatattatgt acgatgraga ttgggaaact taaccgttac ccagscaata ctcaagaagg 720
 agaatcoatt tagcacytcy tcagcctggc tcagtgattc atatgtggct ttgggaatac 780
 ttgggttttt tctgtttgtt ctcttgggaa tcaactcttt gccatctgtt agcaatgcag 840
 tcaactggag agagtccga tttgtccagt ccaaactggg ttatttgacc ctgatcttgt 900
 gtacagccca caccctggtg tacggtggga agagattcct cagcccttca aatctcagat 960
 ggtatcttcc tgcagcctac gtgttagggc ttatcatctc ttgcaactgtg ctggtgatca 1020
 agtttgcctt aatcatgcca tgtgttagaca acacccttac aaggatccgc agggctggga 1080
 aaggaaactca aaacactaga aaaagcattg aatggaaaat caatatttaa aacaaagttc 1140
 aatttagctg gatctctgaa ctatggtttt gaatgtttta agaagaatga tgggtacagt 1200
 taggaaagtt tttttcttac accgtgactg agggaaacat tgcttgtctt tgagaaattg 1260
 actgacatac tggaaagaga caccatttta totcaggtta gtgaagaatc agtgagggtc 1320
 cctgactctt attttcccag aggccatgga gctgagattg agactagcct tgtggtttca 1380
 cactaaagag tttccttggt atgggcaaca tgcattgacct aatgtcttgc aaaatccaat 1440
 agaagtattg cagcttcctt ctctggctca agggctgagt taagtgaag gaaaaacagc 1500
 acaatggtga ccactgataa aggccttatt aggtatatct gaggaagtgg gtcacatgaa 1560
 atgtaaaaag ggaatgaggt tttgttgtt ttttggaagt aaaggcaaac ataaatatta 1620
 ccattagtaa tcttagtgaa atgaccctt gactttgctt ttcttaatac agatatttac 1680
 tgagaggaaac tttttttata acacaagaaa aatttacaat tgattaaaag tatccatgtc 1740
 ttggatacat acgtatctat agagctggca tgtaattctt cctctataaa gaatagggtat 1800
 aggaaagact gaataaaaaat ggagggatat ccccttggat ttcacttgca ttgtgcaata 1860
 agcaaaagag ggttgataaa agttcttgat caaaaagttc aaagaaacca gaattttaga 1920
 cagcaagcta aataaatatt gtaaaattgc actatattag gttaagtatt atttaggtat 1980
 tataatatgc ttgtgaaatt ttatatccca aatattgctc aatatttttc atctattaaa 2040
 ttaattttcta gtgtaaaaaa aaaaaaaaaa agggcggccg c 2081

<210> 30
 <211> 1262
 <212> DNA
 <213> Homo sapiens

<400> 30
 gaaaaaaaca aacaaaaaca aaacatacta catggtgttc tttacttgct tgtgggtttt 60
 aatgaacat atattagtag gcaattgttag taatgtttca ctttgttatt ctctacctct 120
 taagaaaaaa attaccttct tttacaatct aacacactac ttttttaaca ggtgttttaa 180

00695599.070201


```
<210> 31
<211> 1804
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1593)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1701)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1792)
<223> n equals a,t,g, or c
```

<400>	31						
gatacctatta	cagctgccta	cttccctgat	gactagaggg	caccgccaa	cagtgtttac		60
caaaatcaac	aggccagagc	acagctgraa	gatttctgca	tgaatcccca	gacagtgtcg		120
ctcctgcggg	tcactgcgcg	cttctgtttc	ctgggcatcc	tgtgtagtct	ctccgcttcc		180
cttctggatg	tctttggggc	gaagcatcct	gctctgaaga	tcactcgtcg	ctatgccttc		240
gcccatatcc	taacgggtct	gcagctgtgcc	accgtcatctg	gcttttctta	ttggccttct		300
gaactcatct	tggcccagca	gcagcagcat	aagaagtacc	atggatccca	ggtctatgtc		360
accttcgccg	ttagcttcta	cctggctggc	ggagctggcg	gagcctcaat	cctggccacg		420
gcagccaacc	tcctgcgcga	ctacccaca	gaggaagagg	agcaggcgct	ggagctgctc		480
tcagagatgg	aagagaacga	gccctacccg	gcggaatatg	aggctcatca	ccagttccag		540
ccacccctcg	cttacacacc	ctaattccag	ccttgggctc	tcttctctcg	cagccctccc		600
ctcaactctg	cagctcctct	cgcaccagca	ggagctcctt	tccccagcag	gcctcactgg		660
taggatctcg	accatcttct	ccaaaccttc	cccaggagag	actctgcctt	tagggtcatc		720
caagtatccc	tgctctcaga	accggaggtc	cactggtttt	ctataatgta	ctctttccct		780
yctgccacat	cctgccccct	tcacattcac	gagtcattac	cagccaggga	aggctcatcca		840
agtttcctcc	agcatggggc	atatctttgg	gaccgagact	ttccttggag	agctgctgag		900
agcggacagt	ccccaaaaa	agtgtcaaag	ggcccaaggg	aaaggggact	gtgccctgga		960
ggctcacttc	acagggatca	gtgtttgtct	cacagctgta	gctctgggct	gacgcgcccc		1020
agaccccttc	cttctcggag	tgaccgcgcc	ccaggccacc	tgctccgggg	aggtctgtgc		1080
actttactct	ttggacttct	cctcacgtgt	gccttgggtt	tatggggaga	gggaatcgct		1140

```

gttgggaagg cagagcagtt gcaaccctct ctgcccttgc ttcattgtggc tggagcccag 1200
gcaaggagag caggagccag cgtgagactg agggccctcg gtgcctatca aggaccagag 1260
tgaaggggac tacatctccc agcccttcac ctttttaata tgagtgggtt taaaaggaaa 1320
aaaatgaaac caggcaacag caacaatatt ctgtttttta aatagggaca agactgttgt 1380
cacttttttag acatgtatcc cattcctttt ggctctgcaa tatttggggc tgtagctcct 1440
tccaagccca tggtagtccc tcccagagtc tctcccagta gaatgcagcc tcccttccct 1500
ggccctcttc ctctcagtga cggtgactcc ctggggcctt ctctgtgaac ccagaggggc 1560
tgaggactgt ggcttggtcg ggcggccagc gtnggtgtct ctcaggactg cagcactgag 1620
atggaacctg gcctcagttt aggaacaggg gccacaacag ggcaggaacc caccaccctc 1680
cacataggaa tacaaccagt nggggccaca tcatgtgagg catyagacc acamtktiyag 1740
ccagcaaggc gggstktgtt cttayaaacca ktgytgcta rattytgatt tnggggattt 1800
ccag 1804

```

```

<210> 32
<211> 1461
<212> DNA
<213> Homo sapiens

```

```

<400> 32
aattcgccac gagccaaatg attatccttt taatcatgtt ctactccaaa aatatcagcc 60
tgatgatgaa tttccagcct ccgagcaaaag cctggcgggc ctcacagatg atgactttct 120
tcactcttct gctctttttc ccactcttca ccgggggtct gtgcaccctg gccatcacca 180
tctggagatt gaagccttca gctgactgtg gcccttttcg aggtctgcct ctcttcattc 240
actccatcta cagctggatc gacaccctaa gtacacggcc tggctacctg tgggttggtt 300
ggatctatcg gaacctcatt ggaagtgtgc acttcttttt catctcacc ctcattgtgc 360
taatcatcac ctatctttac tggcagatca cagaggggag gaagattatg ataaggctgc 420
tccatgagca gatcattaat gagggcaaaag ataaaatgtt cctgatagaa aaattgatca 480
agctgcagga tatggagaag aaagcaaac ccagctcact tgttctggaa aggagagagg 540
tggagcaaca aggtcttttg catttggggg aacatgatgg cagtcttgac ttgcgatcta 600
gaagatcagt tcaagaaggc aatccaaggg cctgatgact cttttggtaa ccagacacca 660
atcaataaag gggaggagac gaaaatggaa tgatttcttc catgccacct gtgccttttag 720
gaactgcccc gaagaaaaac caaggcttta gccaggagcg gaaactgact accatgtaat 780
tatcaaagta aaattgggca ttccatgcta tttttaatac ctggattgct gatctttcaa 840
gacaaaatac ttgggggttt ccaataaaga ttgttgtaat attgaaatga gcctacaaaa 900
acctaggaag agataactag ggaataatgt atattatctt caagaagtgt gtgcaggaat 960
gattgggtct tagaaatctc tcctgccaga cttcccagac ctggcaaaag ttagaaaact 1020
gttgctaaga aaagtgttcc atctgaata aacatgtaat actccagcag ggatatgaag 1080
cctctgaatt gtagaacctg catttatttg tgactttgaa ctaaagacat ccccatgtc 1140
ccaaagggtg aatacaacca gaggtctcat ctctgaactt tcttgcgtac tgattacatg 1200
agtcttttga gtccgggatg gaggaggttc tgcccctgtg aggtgttata catgaccatc 1260
aaagtccctc gtcaagctag ctttgcagtg gcagtaccgt agccaatgag atttatccga 1320
gacgcgatta ttgctaattg gaaattttcc caatacccca ccgtgatgac ttgaaatata 1380
atcagcgctg gcaatttttg acagtctcta cggagactga ataagaaaaa aaaaaaaaaa 1440
aaactcgagg gggggccccc g 1461

```

```

<210> 33
<211> 1114
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (1073)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1102)
<223> n equals a,t,g, or c

```

<400> 34							
gagcgggaccg	ggcgctcgc	ggccgggggct	gtatgggggct	cccgcgcggg	tcggtcttct		60
ggctgctgct	cctgctcacg	gctgcctgct	cggggctcct	ctttgcccctg	tacttctcgg		120
cggtgccagcg	gtaccggggg	ccagcggcgg	gagccaggta	ggggctgccg	agccgagagc		180
ggggagggcg	cagggggcgac	cagggcgcg	ggagggctcc	cagcccaggg	ctccccggcg		240
gcgccgagcc	ctcagcccac	cctccgcgtg	gacccctctg	gggcagctct	cagcaggagc		300
tcggccgcgg	ccctttgtcg	ccagaacct	ctcccagcct	tgacctygcg	mtgcccggac		360
cccgmgcct	ttccctgggt	ccaaggaaga	mtccgcccct	gtkactggm	gamccgccc		420
ggtgcccctt	ggtgggtaag	tcctccccgg	cctgataagt	acactttcta	ttgtcgaaat		480
ctggctgggt	ccccgaagca	gataaaaaat	tccttttttg	tcgggaagta	tcctcgggta		540
acgtcagatt	ctgctttttg	ggcagggggc	caagtctccg	gtttccaact	tcgcggggam		600
cctccgtcgg	gcgcgggcca	gtgcctttc	ccgcccgtg	cgggtctctg	ccgccccg		660
cccgtctcct	tctccccggc	ttccgctcgc	cgtgtctgga	taagcccagt	gcgggcgcga		720
tcgcggaaga	ggcggggcgc	cgwgggaaag	aggggygact	cctggctcca	tcgcggttct		780
cctcccccg	ccgcgtctcg	cgtctcaact	cctcctctc	cctaggcact	ttctgggtg		840
tcccacgag	agaacctggg	agccggnctc	tagcaggtgg	wggttccggt	gactgaagaa		900
gccgcaaaac	gatttcgctt	agcttaagaa	aggcggacca	agccgtgcga	agtctgggtt		960
tgggaggagg	gaagggcccg	gcagcctcag	ggagaggcct	ycagcccag	cctttccctt		1020
cctggagctt	ttccatctgc	gcaccccta	ccaaccttgc	tggggggcta	acgggatgaa		1080
aacaaaataa	gkatctggtc	tyacaratg	ctgtcaaagg	rtacaccaaa	agttgcagaa		1140
caatgtgaaa	cagcttgcca	gtgatcagga	ctccagcact	cttagaacia	agggtgcttg		1200
cccgcacgg	tgacttaacg	ccgtgagtc	aagcagctg	ggaggcgaag	gtgggaggat		1260
agcttgaggc	caggwttc	aggctgtgag	ctgtgattgc	actactgcat	tcagcctgg		1320

ttgacagagc	gagaccctgt	ctcaaaagaa	aaggaaatcct	tgtcactttt	atgtaaagat	1380
gttttaaaaca	caaagtatat	caatgcaaag	aaataatata	tgtttgatat	aagcctgggc	1440
aacatggcga	aacctcgtct	ctaccaaaaa	tacaaaactt	atccggggat	ggtggtgcat	1500
gtctgtgctt	ccatctatat	attccgggag	ctgaccaaga	agatcccttg	agtctgggag	1560
gtcagaggctg	cagttagctg	tgatcgcgcc	actgcactcc	agcctgggca	atacagcaag	1620
gtcctgtctc	cagaaaaaaa	aaaaaaaaaa	gttcgagggtg	atggatatgc	taattagctg	1680
gtttgattat	tacacattac	atacacgtat	tgaaatatca	cactgtggcc	ggcgcggtg	1740
gctcacgcct	gtagtctcag	cattttggga	ggcggargca	ggcggatcac	gargtcagga	1800
gatccagacc	atcctggcta	acatggtgaa	accccgttct	actaaaaaat	mcaaaaaatt	1860
agctgggctg	ggtggcgggc	acctgtagtc	ccagctactc	gggaggctga	ggcaggagaa	1920
tggcgtgaac	ctgggagggtg	gagcttgtag	tgagccaaga	tgcgcgcact	gcactccagc	1980
ctggtgacag	agcgagactc	catctcaaaa	aaaaaaaaaa	agaaatatca	cactgtaccg	2040
tatacatatg	tgcaagtatg	tgacaattaa	aaataatttt	acaaaaagga	agagacctga	2100
tctagcaact	cagccccact	ctgcatgtga	cgtcctgccc	caccaacacc	aaggccctct	2160
ggctgccttg	gaccactgcc	tatggggtag	ccctgctcca	caaggagcag	aaaaaaaaaa	2220
aaaaagggcg	gccgc					2235

<210> 35

<211> 1853

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1840)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1851)

<223> n equals a,t,g, or c

<400> 35

ctgcaggaaat	tgcgcacgag	cacctataaa	gaatctcaac	ccacttccca	ctcaaaagca	60
ctgtgtatttt	ctcatggcct	gcctgggagc	ccccatctcc	agcctgctgt	gctgggtact	120
tctggcactt	atagcccttg	agatagtacc	gccagcagct	ccctgtgaag	tgctaacacc	180
ccttcaaaagc	agcaccaccc	caattgtgaa	caagctagga	gtaaaagacg	taaatgaatt	240
ggtcaccccca	atgcaggggga	tacagacttg	ttttaatatata	aaaaagaagt	ggccttaacc	300
gtgcagggtg	tgcaggcctt	tgtaggcatg	ggagcatgct	gtgatccctg	gttctgtgct	360
aaacactcaa	aagggtctctc	tgactcaagt	ggaggtgata	aaccttttca	atagtaacag	420
gagagagtgt	gatatcaaag	tgccmgaasy	cctcacggac	caacatttag	cacagacatt	480
caaactgctg	aaagawccaa	wcagaactca	actgaaaaaa	acagaccttt	taagaaaagc	540
aatagatctt	aatttggtgg	caagatccct	ggtttacctt	ttgaagtcaa	aatgttcaat	600
acatcacccg	agcttgactt	ttgagcactt	ggcaagattg	tttttttgcca	cttgacacaa	660
gtatgatgtc	cagctatgca	aaatgactgt	ttgatctgcc	ttttcagtgt	atttgtgtgg	720
cgatgtctgt	aaaatgccag	aagcctctta	tgttattgct	gctgctgcta	ccagccagca	780
actgcagagg	ccatgctgag	gtgcctcctt	gccaccagcc	gttgggaaat	gcctaccatg	840
ctgccccgga	tgcacaagct	caaaacgctg	cagaagttag	acaactgctc	ccataatctg	900
gactctccaa	aaccgtgatg	ccacgaagga	aggtcaagtt	ttaaaatggt	aaagactgct	960
tgccctctgtt	cctgagacta	aacagtatac	atactaacta	cattgacaaa	gaaatcctat	1020
ctgataatgt	agcccgctga	cgaattttga	agcctcggtt	accctaacca	atatgtagct	1080
tttaattttgc	atcaaaaactt	ttacaaaagat	gttttgctat	tgtttctata	tacttcaaga	1140
atgttcattt	ttacaaaataa	gttgaacaag	acagcctaag	ttagatgcac	cgaagtacta	1200
gaaatatcgc	tagcctctgt	tctccagttt	agcttttcaa	accaaagag	ccatgtataa	1260
aggagtttgc	aaacttaatt	tttaaatggt	tcatttgtag	agttttatat	ccattaaagt	1320
cctttgaaaag	tttccagttg	tgtgggctgc	tgtctcacct	cccaccaatt	tctcctttct	1380
ccttatggtg	ctaaaacctc	aaagctgagg	agggctgcag	gacccttagc	agattcagtg	1440
tgtcacccctt	gtcctgtgtt	cacgcccaag	cttcctaaat	gaaagacatc	ggttacctgc	1500
ttatgggaag	actcttcctg	ctgatcggat	cttgcatgga	aataaccatg	tggaagaaca	1560
atgaatcgat	taatgatgac	atgtacaacc	atattttaaag	agcaatagtg	tccgtgtgtc	1620

atgaaaaact	tattttgtaaa	cgttttatatg	gtatgatTTTT	gatttttatgt	atgttcataa	1680
atcctgcact	gtatgatata	tgtgagttaa	aacattggtg	catgaattta	ttttcaaagt	1740
ataaaacaca	tcacttaaac	attttatgtg	tcaataaaaa	tttgattatg	taaaaaaaaa	1800
aaaaaaaaac	tcgagggggg	gcccggrocc	aattcgccan	atggagatcc	naa	1853

<210> 36
 <211> 1465
 <212> DNA
 <213> Homo sapiens

<400> 36						
ccacgcgtcc	gaagaaagaa	gcgggggcgaa	taagcacggt	tgagctacag	aaaatgggtgg	60
ctcagatctt	ttattatctt	tgtgtcattg	cactgcagta	tgtggcgccct	ctggtaatgc	120
tgcttcacac	aactctgctt	ttgaaacac	taggtaatca	ttcctgggggt	atttatccag	180
aactctatctc	taccttacca	gtggataata	gtctactgtc	caattctgtt	tactctgaat	240
taccatcagc	tgaaggga	atgaaggtaa	ctgttacaca	aataacagtg	gcactgagca	300
gcttaaaaaa	tatttttact	cctcttcttt	ttcgaggact	tctgtctttt	ctgacctggt	360
ggattgctgc	ttgcctcttt	tctacaagcc	tttttgggct	tttctatcac	cagtatctga	420
ctgtggcatg	aatctcagtt	aacaaaaaag	cataatccaa	atcacccttt	aaattaaaat	480
atctgtgccc	ttaaagggct	gatgaaaacc	agaagaaagc	aaatacaatg	ggaaaaaaa	540
aacatatcag	aatgtcttgt	attaaatggt	tcctctgtat	tctcaggggtg	aattaatgta	600
gtaatattta	aaattacaaa	atagattggt	aactgttaca	ctgtggcatt	ggaattttta	660
ctctttgtat	ttactgggtat	gagagggcta	tctacaaggg	taatatctct	gattaccctg	720
gtttacagaa	acctccagca	gtctttgaaa	catctcacat	gactctagtt	attgattgct	780
tttaattgggt	ttatggtaact	gttgatagtc	atagtggctg	cctatagaac	aatcttcaaa	840
ctgagccatg	ctttagggga	gggaaagggg	ctaaagctct	ttctgttgggt	aatttattag	900
ttactcttga	aacagtaaaa	tccaacagaa	aggaagagat	agctactgta	tattacagta	960
aagaaagctg	catagttatt	ttaaatttaa	tggagatgaa	tatggttaaa	atatataact	1020
actgctgctt	gagaatagca	agagtattgt	tttaaaacat	attccaccca	acttgagagt	1080
tcttttaaaa	tgattggcca	tatgaacatt	tgtaatcttg	ccattaggtt	tggacctgcc	1140
atattttggt	ttattctgtg	atcctaaacta	gttcctttta	ataggctaaa	atatttatca	1200
atactgatca	gactttaaag	aaattacttt	gtaaacctgc	tgactacctg	tatgtattgt	1260
atatatatata	tatattaaat	atataatata	ttgagattat	aaaagatgaa	aatattgaat	1320
ccttataata	ttttaagttg	cagaatgtat	gttaaaaaagt	gacttgaatg	agatgtattt	1380
gtatctagaa	attttatttc	tttttggaa	gagattaaaa	tacattttga	aagttcaaaa	1440
aaaaaaaaaa	aaaaaaaaaa	aaaaa				1465

<210> 37
 <211> 985
 <212> DNA
 <213> Homo sapiens

<400> 37						
ggcacgagcg	gcgccacgag	gcgggccggac	ccgcagcccc	gatgctgctg	acgctggccg	60
ggggcgcgct	cttcttcccg	gggctcttcg	cgctctgcac	ctgggcgctg	cgccgctccc	120
agcccgatg	gagccgcacc	gactgcgtga	tgatcagcac	caggctggtt	tcctcggtgc	180
acgccgtgct	ggccaccggc	tcggggatcg	tcattcattcg	ctcctgcgac	gacgtgatca	240
ccggcaggca	ctggcttgcc	cgggaaatag	tgtggtttct	gattccatac	atgatctatg	300
actcgtacgc	catgtacctc	tgtgaatggg	gcogaaccag	agaccagaac	cgtgcgccct	360
ccctcactct	tcgaaacttc	ctaagtcgaa	accgcctcat	gatcacacat	catgcgggtca	420
ttctctttgt	ccttgtgcca	gtcgcacaga	ggctccgggg	agaccttggg	gacttctttg	480
tcggctgcac	cttcacggca	gaactgagca	ctccgtttgt	gtcgtggggc	agggttctga	540
ttcagctaaa	gcagcagcac	acccttctgt	acaaggtgaa	tggaatctc	acgctggcca	600
ccttcctttc	ctgcgggac	cttctcttcc	ccttcatgta	ctggtcctat	ggccgccagc	660
agggactaag	cctgctccaa	gtacccttca	gcattccatt	ctactgcaac	gtggccaatg	720
ccttcctcgt	agctcctcag	atctactggt	tctgtctgct	gtgcaggaag	gcagtccggc	780
tctttgacac	tcccaagcc	aaaaaggatg	gctaaatgct	cctgggagtc	aggcgagcc	840
tcacaccagc	tgctcctcc	actcagcatt	ccatggacca	aattgtgccc	tgggtagcct	900
cagactttgg	gtattgataa	gccgatggat	ttgagttttt	ctaaagaata	ttcatattac	960

985

<400>	38							
ggcacgagcc	tttcttggcc	ttcattcttct	cttcttacac	tgctcctggg	tgctatctgc			60
tttttgagtt	ttagtcattca	cctgtttccc	tacgcgcttg	ggggctcagct	gccccaaacc			120
tgacctctct	cttgtatacca	tggcgctggc	ccagtgtgtg	gtgccaactg	ggttcttggg			180
gaagtgtctgt	ctgtctgggga	gactgatgtg	tgcagagtgt	attgggacgt	actcatggga			240
tcagcccccgt	agaagggaag	agatggaggc	gagactggac	agtgggagaa	gctgggcctc			300
agtgtcatat	ggaacacaggc	ctcagctgca	cggggagccc	tgcactgccg	tggcctgcag			360
acgtgtcccca	tgttgttctg	agggggcccg	gccattctcc	tccctcactg	accagcagtt			420
gaatgcagtc	tacctgggtt	gatgtgtgtc	tcttcagcaa	ggagacaagg	ctctctgtga			480
cccagcaggg	cctgtgcagc	tgggaagccg	tccgagagat	ctctggcgat	gggagggccg			540
gggccttctg	tccccgttgc	agggccctgg	tgctcactgc	tccaaggaaa	gggttaggytc			600
ttgatgaagg	gctcttgccc	gtcaaggaca	acttctgggg	aggcagcact	ctccccctgg			660
gaacgggcct	ctcctccctg	caggccgtct	gggcgactca	ttagtcccc	ctgcagtcg			719

<400>	39						
ggcacgagca	gggctaagcc	tctctgtaaaa	tgctcttttaa	gattattgta	gcaagaacag		60
aaatgctgcga	tggtctggggg	tggggagaga	atgccaacga	gacagctgca	tttcaaacag		120
ttacagctgc	aaggattact	catagtaata	gcagtgcag	acaactgttt	gagctttagt		180
gtaaaaggca	atttggggac	ttgcctgtgc	agaatttttag	tgcgaagctt	ctgtgtgcac		240
gtgtgtgtgc	atgtgcgtgt	gtatctttatt	caaatagttt	tgatctgaa	gagtggaaag		300
aaatatttta	aattttttact	tctcaattgt	gctaattgtg	aaatcagtag	ttgactcatc		360
tttattaaaa	tcattgtcct	agaggaagtt	tataaaatgt	ttatttgtag	caatgatgaa		420
tttaaatgta	tatgtttctaa	ctgaatcaca	tgtctgcttt	tccgtctcaa	aatttatctt		480
gtgatgattc	ctgtttttaaa	aatatttggtt	ttccttgtaa	tttctgaaac	tacagctttg		540
tytaatatag	gatcctttat	ttaaaaattt	atttcaaaata	tgtatgmagc	ttataaaagt		600
aatgcctgtc	atgaaatctg	gaaaatactc	aaagaggtaa	aggagaaaac	aatcattatt		660
ctagcagaga	taactgtcaa	ttttaaatcc	ttctggaccc	ttgttttatgc	attctagagc		720
atattaagag	catgttaatc	atkttaaagg	ttaaaaatgg	taatcatttt	aaaaaatatt		780
tggaagaagt	agcaaatggg	gacaaatttg	gtttttgagaa	gtcaataaca	gccattgtgc		840
aagattttct	tttcagtgtg	cagctattaa	agtaacattg	cagcctgttt	tctgtagcag		900
ttgtcttttg	aaggccttbt	acagttttatc	tcgaaattta	gtttttatggt	ttccttcaat		960
ttaaagtttg	ctggcctttac	agggagtctt	gtgatccatt	gaaatgctaa	cttgggtcgt		1020
gtctcaactg	ctacaatgct	gtgtagaaac	tgtcattaaa	attctggtta	tcttgcaact		1080
ggcagagaac	ccatgctgat	tccttaggaa	gatagtacac	tgttaaaaatt	ttgaatcgca		1140
attgtgcttc	tgtctgccaa	atattatcaa	tatttghtaat	cacttaaggt	tgaaatagtt		1200
tgaataaaat	ggaacgtttt	agtatgtatc	ttctaaaaaa	aaaaaaaaaa	aaaaaaaaaa		1260
aaaaaaaaaa							1269

```
<400> 40
ccacgcgtcc ggtagcgtgt ctgactgcag gcgtattgaa ccctgagcct ggctatgatg      60
cccttttaqt qgggacacag actaatcttt tggcttatga tgtctacaat aattcggatt    120
```

```
<210> 41
<211> 1692
<212> DNA
<213> Homo sapiens
```

<400>	41							
ccacgcgtcc	ggccgcgggg	cgggcgcgcgg	cgggcgcgcgc	ggcgcgcgcgg	accagcgcgg		60	
ccaggtggcg	agcgctgcgc	gggggtgcgcg	gagatgcctg	gcgggactgg	ggccacctga		120	
gcccgcgcgc	tcgtcccgcc	cttctgtggg	aaggatgtgc	cgggtgcac	ccgtgcac		180	
aacagcggcc	cctcgggggc	cctacggccc	ctggctctgc	ctcctggtgg	ccctgcacct		240	
ggacgtcgtg	agagtggact	gtggccaggc	tcacctggac	cctgtctacc	tgccggcagc		300	
cctggagctc	ctagacgccc	ctgaacaatt	ccgtgtgcag	cagggtgggc	actaccacc		360	
tgccaactcc	tctctgagct	ccgcacttga	gacctttctg	ctctacagc	cctggcccag		420	
ggcccagcca	ctcttcgggg	cctctctacc	gacctttgcg	actcagcag	tggctcccc		480	
tcgagtcact	gagccccacc	aacggccagt	cccatgggac	gtgcggggcg	tttcagtgga		540	
agcggctgtg	actccagcag	agccctacgc	ccgggtttct	ttccacctca	aagggcagga		600	
ttggccacca	gggtctggcc	gcctgcctg	tgcccggtct	cactccacac	accctgcctg		660	
cactgctcac	caagcctgcc	gcttccagcc	atccctgggc	gcctgcctgg	tggagctgga		720	

gcttccctcg cactggttct cacaggcctc caccacacgg gccgagctgg cctacacgct 780
 tgagcctgca gctgagggcc ctgggggctg tggctccggc gaggagaacg accctgggga 840
 gcaggccctc ccagtggggg gtgtggagct gcgccagca gacccccgc agtaccagga 900
 ggtacctctg gacgaggtg tgactctgct ggtgctgac atgccagtgc ggcccggcca 960
 gctctttagt gctaccctcc tgcttcggca caacttcaca gccagcctcc tgaccctgctg 1020
 gatcaagggtg aagaaggggc tgcattgtgac agccgcccgc ccagcccagc ccacactctg 1080
 gactgccaaag ctggaccgct tcaagggtc caggcaccac accaccctca tcacctgcca 1140
 ccgtgctggg ctcacagagc cagattccag cagtccctt gaactgtctg agttcctatg 1200
 ggtggacttt gtggtggaga atagcactgg tgggggctga gcggtcactc gccccgtcac 1260
 gtggcagctg gactaccag gccaggcccc tgaagcagag aaggacaaaa tgggtgtggga 1320
 aatcctgggt tctgagcggg acatcagagc ccttatccca ctggccaagg tgtctgagga 1380
 ctgtgatgcc gtgttcgtgg ctggcaagga gcccgggggg tgcgagtga 1440
 ctctggtgg cgccggctcc gcgcctcgct gcggctgacc gtgtggggcc cctgctacc 1500
 gctgcgtatc gagctcaccg acaccaccct cgagcaggtc cgcggtgga gggtagctgg 1560
 cctgctgaa gggcctgcgg aaccgctgc agaggcgtcg gatgagggcg agcggcgcgc 1620
 ccgtggctgc cacctgaggt accagcgggc cggtgtgcgc ttcctcgccc ccttcgcggc 1680
 ccaccgctg ga 1692

<210> 42

<211> 1605

<212> DNA

<213> Homo sapiens

<400> 42

ccacgcgtcc gaatttcttc agtttggcta agggaatttt tttaaaacta attcagaact 60
 tatgattcct ttttcatctc agaagttaac cctatggaaa atgtggcaat gtttctgaga 120
 tttgcaaaat attgtgatag tatctatgtc ttattgtctca agatctaaac tcttatgttt 180
 gggagtaggg gtttgcgttg tatgtgtgta ttttttttta acatcttggc ctcacagtgt 240
 aaagtataa gctcaggagg aatgttctgc tgcagaacgc ctacattact agattactta 300
 cggaacact ttctttaaag aggatctctg tgaaccatc tttttttcca cttacagttt 360
 caataagagg agatcagtat gaaattaagt aggagagAAC aatatgagag agagagagaa 420
 gagttcagca ttcctcttca agctagctaa tattttttaa atgtcgacac tgttccagga 480
 actctgcttt ttaggcaaaag attctgcctt ggtcttcgtc ctctccacac cccagcatc 540
 tcgtgggctg acacatcaac aggttttgag aaagagacac aaaaggctcag acgcatgaca 600
 cagcaggaac ccaggaggac gtccctgcag cctgctctct tctaatagat ctccccagc 660
 cccagttcc cagcctctga cccagtccc acctttataa tgtccctttc tctctatttt 720
 ctctccggta ccacttttcc ctccatttag cctcctcct catccctcc tgttatcaca 780
 gctgagctct acaactgagc tgagcaatat atacaaaact caagcctggt ttaggcaggc 840
 ctgacccctg ggataggtca gggcgggtgt tccttgggag aattcctgct tgatgagatg 900
 gaagggtcaa gtcaatagcc tcatggtccc cccaagtctg acagtctgct attctacaca 960
 cctgtccaca ggctgcagac ttataaagggt aaatgttcag gtattagaaa atattcaaag 1020
 aattctcaat gttcaaaatt ctgaaaagca aatctatgct gaatgtgtgg tggaggcatt 1080
 ctaaaagata aaaaatgatg gctacaaaaa gccaaagtata aaaagaaaca cgtacatata 1140
 cacacacata cacctacaca tgtacattcg aagaggcaga ggagagacag agaaaataat 1200
 taagacagca ttagttccta aatagccttt tctataaaact ccatgacaac aaaggacaat 1260
 gagtaaaact cagtatctaa agatttaaact ctcagaatac ctgccagatg ccaggcatgg 1320
 tggttcacac ctataatccc agcactttgg gaggccaagg cgggtgaatg gcttgagttc 1380
 aggagtccga gaacagcttg ggcaacatgg cgaaaccctg tctctacaaa aaatacaaaa 1440
 attagctgag catggttagcg cacacctgta gtcacagcta cttgagaggc tgaggcagga 1500
 gggtcaccta tgcccaggaa gtcaaggctg cagtgagctg tgatcacacc actgcactcc 1560
 agcctgggtg acagagcaag accttgtctc aaaaaaaaaa aaaaa 1605

<210> 43

<211> 2460

<212> DNA

<213> Homo sapiens

<400> 43

actgcaggaa ttcggcacag gaggcatagg gctgcgtgtg aggagtggtc cattgcatgg 60

gcttccctcca gtttggcttt ggatttttga gctctctgaa tttgttgttt gtgtccctttg 120
cacagtgtcc ctcccaggtt gcacccatgc ctgcccctca gggcccccca ctcccagtgga 180
atttcacacc atgcagcatg tactttaagc catacatctt acgtatgttc cagacatttg 240
gtaaaacgcc gtttatgtgt ttttcagtga ctcaaaaca ttttatttac gtagatgagg 300
aatgtactca ggcacccttc gtgatacctt gccctcagca ggcactcaac agcaataata 360
actttcattc cttttgtgct tctcttaaca gtctgtgttt agtaggagca cagtagctgt 420
ttggggaacg accttaagtg aatagatgtc tgaaatgctg tgtgaagtgg ggcgcttaat 480
aggtggtgag atgggttttag aaccagggtt tccctctttt gcttcttgac tccctaacca 540
gttttcatta ggagaccctt ttggagggtt gcagtcagtc agagttaggt gcctactgag 600
tgtactgaat tatgaaatga gcacagttcc cattaaacctg aattttttgc tcccaagtaa 660
gtcttgattt ctgatttatg actgctttttt gttgtacccc aatagtcgtc taagaaagggt 720
gattattttg agaggcctgg ggagacacac atgctcattc tcgagggtgg cgggtggtgca 780
gagggcagag ccagtgcctg tcttgctatc ctgagattgg ttgctatctg tttcctttgc 840
tgctgtgttt ttttctgtca gtattaaagg tggaagaagg tccatatctt tttctgtggg 900
tgcttcaagt gttgttggaa gtggaggcag cagtgacaag gggaagcttt ccctgcagga 960
tgtagctgag ctgattcggg ccagagcctg ccagagggtg gtggtcatgg tgggggcccgg 1020
catcagcaca ccagtgga ttcagacctt cagatcgccg gggagtggcc tgtacagcaa 1080
cctccagcag tacgatctcc cgtaccccga ggccattttt gaactcccat tcttctttca 1140
caaccccaag ccttttttca ctttgcccaa ggagctgtac cctggaaact acaagcccaa 1200
cgtcactcac tactttctcc ggctgcttca tgacaagggg ctgcttctgc ggctctacac 1260
gcagaacatc gatgggcttg agagaggagt cctgccaaag ccagaagtgg tgccttggc 1320
cttgctgct catctcggag gcggcagcaa cacttcgctt tggttgaat ttcagtgtcg 1380
ggcatccctg cctcaaagct ggttgaagct catggaacct ttgcctctgc cacctgcaca 1440
gtctgcaaaa gacccttccc aggggaggac attcgggctg acgtgatggc agacagggtt 1500
ccccgctgcc cggctcgcac cggcgttgtg aagcccgaca ttgtgttctt tgggagccgc 1560
tgccccagag gttcttctg catgtgggtt atttcccat ggcagatctg ctgctcatcc 1620
ttgggacctc cctggagggtg gagccttttg ccagcttgac cgaggccgtg cggagctcag 1680
ttccccgact gctcatcaac cgggacttgg tggggccctt ggcttggcat cctcgcagca 1740
gggacgtggc ccagctgggg gacgtggttc acggcgtgga aagcctagtg gagcttctgg 1800
gctggacaga agagatgcgg gacctgtgac agcgggaaac tgggaagctt gatggaccag 1860
acaaatagga tgatggctgc cccacacaa taaatggtaa cataggagac atccacatcc 1920
caattctgac aagacctcat gctggaagac agcttgggca ggtgaaacca gaatatgtga 1980
actgagtggg cacccgaggc tggcactgga atgtcttctc aggccatgag ctgcagtgc 2040
tggtagggtc gtgtttacag tcagggccac cccgtcacat atacaaagga gctgcctgcc 2100
tgtttgcctg gttgaactct tcaactctgct gaagctccta atggaaaaag ctttcttctg 2160
actgtgacct tcttgaactg aatcagacca actggaatcc cagaccgagt ctgctttctg 2220
tgccctagttg aacggcaagc tcggcatctg ttggttacia gatccagact tgggcccagc 2280
ggccccagc cctcttcatg ttccgaagt tagtcttgag gccctggtgc cgcacttcta 2340
gcatgttggt ctcttttagt ggggctatct ttaatgagag aaaatctgtt ctttccagca 2400
tgaaatacat ttagtctcct caaaaaaaaa aaaaaaaaaa aaaaactcga gggggggccc 2460

<210> 44
<211> 1517
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (144)
<223> n equals a,t,g, or c

<400> 44
gttgagctctt tgggtgtgct tttaatggct tctctgcctc ttccttaggt gtcaggctgc 60
tctacctgtt tctagacgct ctteectttc cccctccaaa cctcttttct tccctgctgc 120
tttccatctt tctgtggcta gganatcagg taatcaagcc tgtgttttct gtaatgagta 180
agtgggttgc cagcgaggct tctgtggatg ctccgtgtag tcaagtgcac gagctttagt 240
gcatggactt tggggctctg gttcccacag cttatatgtt ttgggggctg ctttcttctg 300
ctttacccac attctgtgtc atgagtgtgc cgggttaggt gcctcctgcc cgtggaggc 360
tgagcatctt ggcagtgtcc atcatgcctt gcgtgtgccc ggccctcttg ctgcagatac 420
tatggaccgc cagctcatcc cctgctcacc acctggcctc tccctttctc tgtgtgcaga 480

```
<210> 45
<211> 3080
<212> DNA
<213> Homo sapiens
```

<400>	45						
ccctctaacc	tccagagcta	tgggtctcaga	tgcttcccttt	tagagagaag	gtcatttagtc		60
caccaagaag	ccaaatgaca	acaggaaagg	tgatgggaag	atgaaaacaa	aggaaggtgg		120
acttttgggt	atatgttata	gccatgtatg	tatgtctctt	ttttctctatt	ttctcttggt		180
cttcactta	actgtcctca	atctgcccc	caccaacct	gtgtcactcc	cagcacacat		240
aagacagca	agaaagcccc	atccttgagc	tgggtctccc	tgggttatggg	ctgaggtaac		300
atcccacaca	ccaggacgat	cttccctgcc	tcccacgggt	cacattaaga	cattttcaaa		360
gtgtaatat	ataaatggac	ctacctctaa	atattgactt	tacagttatt	ttatgaggca		420
ctcaatttat	agctaagggt	tttcagtcta	gtgtcatgaa	agagataaaa	gggtgttcac		480
agattatttta	agacataaag	ctgggtcaggg	atgagtcaga	gagtcattct	ccatgaagtc		540
acccttggcc	aactttgaaa	ggaagaatgt	tttaactgac	tttgggcgt	aatgaagaagc		600
atctgggacc	ctcccccttc	ctgatccctg	ccaccaccac	tcaatcgccc	agataatcaa		660
ttgtttctga	ggtcactttc	acataatctt	ggcaacttta	gttgttgaaa	gcatgcatgc		720
agggggcaaca	tggtgttacc	tgttgctttt	tttttcccc	ttctaagctc	cttaccagag		780
agcagatcta	aggatactgt	gtaacttgaa	ataaccggca	ttttcagact	ttgccatttc		840
atagtccata	gggcaagcca	tctttcaggg	atatcccat	gggtgggcagg	aaactctgac		900
atctggctct	cagaaatat	ctgcctaagtc	acacctggga	attcataaaa	caccnaaatg		960
cattgtttga	tgtggcctta	cctgctcctt	gtatcttatt	ggattgaatg	agaacagatg		1020
caaaacaagt	atgtacagaa	atgccaggaa	aactactgtc	ttccaatggg	gttcaacagt		1080
tcaaagccct	ccattgatgg	agccacttag	gagggtttcag	tgtcttaatt	cttttagatt		1140
ttgacagttt	tagaaaaacta	aaaaaaaaaa	aaacaagttt	ttatcgtgaa	atttgattac		1200
aaaagatttt	gagagaaaatg	ataagaacca	gatctgaaga	atttgaaatt	tgaaaaattca		1260
gcagagcatt	tttttaattt	tatcttgtac	aagatgaact	aaataaattg	tttttaactg		1320
actctttttt	tgttggaattc	aaaagttaac	cttcagactt	atttagaggg	ttttcataaaa		1380
gcaagttttt	ttctgttgct	gctcaatttc	ttctttttct	tttctatctt	ttctttttctc		1440
ttctttttgc	tgttccctgt	gtgtgaagca	ggaggggcag	ctgaaatgct	ttgcatactc		1500
accctggtca	ttttccagtt	aggacaagct	caaagggaga	gcacagctca	gaaggtggca		1560
cccatgactc	aggaaaatat	ttgtggctca	tttgaaaagca	gcactcttcta	agtggtgtgc		1620
ataatagaca	aaaatcaaca	ggttgttggg	gtgtttattt	tcccactgct	gtatgaaagc		1680
tgggtctgct	gcctttgat	ggccaagagg	agctcctggc	agccgtggcc	atgtgtcccg		1740
gggtgtgtgg	ggcaggcggc	agttcttggc	agccttctct	gcagggctgc	ttcttgacct		1800
tgcttcaaag	ccttctgggc	tgtagaccac	acagagctca	cctcaagca	gccacgctgg		1860
accacattgc	tttcactgat	tttgactcat	ctcccccata	gtgcagtggt	tccaaagggtg		1920
gctgtgggtg	acacagccgt	gtgttcgtgc	tgtacggcac	tgtggtcatg	gggggtgacgc		1980
tggagctcct	gattagtttg	agtttcaaatc	ccagcctcgc	tgggtggcat	gcttagaagc		2040
gaccctaqca	gqccqcaaqc	ccagtaaat	qgtqqaqtca	tttggtaaaqq	ataatqctga		2100

atgcaggaca	tttatatgga	tgaaagagta	tgggaaaggg	aatttcagtg	atatgaattc	2160
caaagcgtgt	tagtatattt	tataagaaac	aaaaaggtat	tcaccagcac	caccaaactc	2220
catcatcagt	cacaggcaac	caagaattga	tcactctccc	agaacttttg	gaggccgagg	2280
caggcagatc	acgagggtcag	gagatcgaga	ccatcctggc	taacacgggtg	aaaccccgtc	2340
tgtactaaaa	atacaaaaaa	aaaaaaagaa	aaattagccg	ggcatgggtg	cgggagggtg	2400
aggcaggaga	atggcgtgaa	cccgggaggg	ggagcttgca	gtgagccgag	atcacgccac	2460
tggactcctg	cctgagtgac	agaggggagac	gccgtctcaa	aaaaaaaaaa	aaaaaaaaaa	2520
gaattgagca	ctcaagtcgg	tcttctaaac	tgctgaacc	tcttgagatg	agaagaacaa	2580
aacaaacctg	cgctgtcctg	atgtaggtta	ccctaattgga	gcttcctggg	ttctcctctc	2640
cctgtcacat	ctcaggggact	ccaccttatt	ttaaagctgt	cttactagca	ctggttgact	2700
tttctgtttc	agatgctcaa	acaagagatg	gagcaggggc	agggttttgg	gttaaattggg	2760
ctggagggtg	gattggcccc	cctaaggtgt	tgaggacact	tggggtgaaa	gtcgttaggg	2820
tatatgtagg	tcagagccag	ggccgctgcg	tgacacagag	tctgtcatgg	agcggccagt	2880
aggcaccaaa	atccagccaa	agctcggcca	tgagagctgg	gtagcggcag	gggtgacaac	2940
agtggccacc	ctggtaaggt	taaggtcaga	cttgggttag	tctaagctgt	cagagggtgt	3000
tcatcatttt	tcttaccttt	ccaatagtga	ccctattcca	aaggccttgt	ttcttgtgcc	3060
agagaagaaa	ctaaagtata					3080

<210> 46
 <211> 2204
 <212> DNA
 <213> Homo sapiens

<400> 46						
ccacgcgtcc	gctttccccc	acattttcca	agctctgggc	agctggagta	actgtgtgta	60
cagacttttc	tatgtgctgt	tgtgggtgca	tgtatgagt	tgtgtgtgtg	tttgtgtgtc	120
tgtgtattta	taggggaatg	agagtgcctt	gggtgtgcac	tttagatatt	cctctgtaca	180
tcctgtgtgt	gcttacatgg	acacattctg	tgtacttata	ctgtgtgtat	acacatgtgc	240
agcccatatg	tccatacata	gggtgtgtgt	tatactatgt	gtgtactttg	tccacttatg	300
gatgtgtgtg	tgtaccattg	agtcacatc	taggagagag	agagaatgtg	tgtgtgtgtg	360
tgtccatgta	tggatgtgtg	gatattctat	gtctgtattt	agagtgcagg	tatatggatg	420
ttcatgtgct	gtgtgtgtgt	gtgcgcacac	acactctgcc	tctttgtgtg	tgtgcatgtg	480
tataccttgt	gtgcccattg	atcgggggtg	tgtgtaccct	gcttgtctat	gtatggggga	540
gcacatgtag	cctgtgagtc	ttattctgct	gggcagtggt	tggagtgggt	gggaggctga	600
gcatgaaagg	ccacttgtgc	cagttggagg	agggtggggc	gctgctgcct	gctgcctcag	660
gacttgggtg	gcttgtggga	ggccgggctc	caccaccag	ccttcctgtg	tctcggtccc	720
cagtttaaga	ggcgagttca	ggagtccacg	cagggtgctac	gggagctgga	gacctccctg	780
aggaccaacc	acattgggtg	agtgagggtc	cagatcttcc	tctctggggc	taggaaggct	840
ctgcttccag	gcagctcctg	gagcttcccc	ttcctactcc	ccctgcccc	tgcacaaggc	900
tgtgcttgtg	gaccacctcc	tggagggtgc	caggacagct	tccccctccc	ttcctgcccc	960
tgtctgtact	ggcaccttga	ggcatggctg	ggctgtggga	cccacctgag	tctcccagaa	1020
tcccttggta	tcattgggtt	tttgggggtt	gaaagggcac	cccaggggtc	cttgctgtcc	1080
ctgttctgtg	cccatgtggc	gcaggacctc	cttctgtggt	ggagctcagg	gagccctgtg	1140
cccacagggt	ggtgcaggag	ttcctcaatg	aagagaaccg	tggcctggat	gtgctgctcg	1200
agtacctggc	ctttgcccag	tgtctgttca	cgtaagcccc	ctgctcccag	cctcatgtcc	1260
gctcctcaga	gctttgatcc	ccgtctccct	gcatctcacc	cactccccct	gccagtttca	1320
agccaggcag	ccgagcctac	cctggaaccc	tccacttggc	cttgagcgat	gctccttcca	1380
gaaggcctgc	cccgcacagg	gaggggtggc	tctcttccac	cactatgttc	agcacagtgc	1440
caagaacaca	gctcctcctt	cctgtcctct	agtctcacct	gcaggctctg	ctctccttgc	1500
gtttctctct	ccccctttta	agtggccctt	gcagtgttgg	cctccagccc	cattgcatcc	1560
tgtccccagg	tatgacatgg	agagcacaga	caacgggggt	ccaactcaga	gaaaaacaag	1620
cccctggagc	agtctgtgga	agacctcagc	aaggggtccac	cctcctccgt	gccccaaaag	1680
cgccacctga	ccatcaagta	tgtggggcac	aaagtggggg	ggtgggagaa	cagagaattc	1740
agccccca	ctgtctgcat	tagccagccc	accccgggcc	cttgggggtg	gcgagagggg	1800
tagccatgca	ttagggggtc	gagtaaggga	ctcatacaga	gtttggggaca	ccagtatgtt	1860
aagaagccat	caggggtggg	gctgggtgct	gtggctcatg	cctgtaatcc	cagcactttg	1920
ggagactgag	gtgggcagat	catttgagga	catgagtttg	agaccagcct	ggctaacatg	1980
gtaaacccca	tctctactaa	atacaaaaat	agccgggttg	gtgggtgcacg	ccttaatcct	2040
agctactcag	gaagctgagg	tgggagaatc	gctggagccc	aggggatgga	ggttgacagt	2100
agctgagatc	gcaccactgc	actgcagcct	gggtgacaga	gtgagacctt	tctcaaaaaa	2160

2204

<400> 47						
ggcacgagaa	caatttccct	tgtacataat	atacttatgt	acttatacca	ttgactctgt	60
aagataaaag	tcttagaaat	ggggttgcc	agtcaaagg	tctatgcatt	taacacaggg	120
aatgagtact	gtcacgtggc	tcttgaaact	gtttaccagg	tttatgttcc	caccaacagt	180
gtctaattcc	catacctgtg	ctaggtatta	gtctcttaat	ttttgtctga	ttatttcatt	240
taattttaat	ttccattatc	actgggtgagg	ttgggcttct	gttcagtttt	tttgtcattt	300
atgtttcttt	tgtgaattgc	cttttccctat	gctttgtgca	tttttctctt	ggggtttgtc	360
tttttaaaat	tgatatacag	gtgttctcta	taatatagat	attctgccac	tatatgcaaa	420
tgatcttcca	atttatttat	ttatttgaaa	cagagtttca	ctcttgtcac	caggttggag	480
tgcagaggtg	cgatcttggc	tcactgcaac	ctccacctcc	caagttcaag	cgattttcct	540
gctcagccct	ccctagtaac	tgggattaca	ggtgccctgc	caccatgcgc	ggctaatttt	600
tgtatttttg	gtagagacgg	ggttttgcc	tgttggccag	gctggcctcg	aactcctgac	660
ttcaggtgat	ctgccacct	cagcctccca	aagtgcctgg	attacaggcc	tgagctaccg	720
caccggcccc	aatttatttc	ttttaactta	gtttatggtg	cctttagctg	tacaaaagtt	780
actaattttt	agtcaaatat	ccagcttttc	ctttagggtc	tcttatatgt	cctgatccaa	840
ggattatttt	ttaaaaattc	ttcctgtatt	tctcctataa	tattcatagg	ttactttaca	900
attagatttt	tatacatctc	cctaactttt	tcatatagta	tgagtgatoc	atttttaaaa	960
aatggatata	cagttgtgcc	catatgtctt	ttccactcat	ctgaaatgcc	accattatca	1020
tattttcaat	tttcatgtgc	acgtgggtct	gttttcaaac	ttggagattc	tcttccactg	1080
atatatgtct	attcttbtgc	cagtggttta	actgctattg	ctttatagta	tattttgata	1140
tcttcttttc	aaaaggatac	tcttbtgtat	tctttttttc	atcttbtgtat	ttctcatcca	1200
ttttccagaa	aaccacagaa	tcaactttat	gtttcatttc	attaagtcag	attagtgaga	1260
gctgattttc	tgtgtatcat	gttcttccag	aaacatagtc	tatcttccca	tttaggggca	1320
cttgtttttat	attttctttc	taacacgtat	tttgttgggt	ttatttgtacc	tttttttttt	1380
ttaaacttcag	attcaggggg	gtgcacgtgc	aggtttgtta	cctgagtata	cgatatgata	1440
ctgaggttgg	agtatgaatg	atgccattac	ccaggtaactg	ggcataatac	ccaatagtta	1500
gtttttcaac	ccttgcctct	ctccctctct	cctccctcta	gtagtcccc	gtttctaata	1560
ctgccatctc	cagtgttcctg	agaaccagat	gtttagctcc	cacttataag	tgagagcatg	1620
ttgcattttg	ttttctgttc	ctgccattac	ctttgtaggg	acatgtagta	aattggaaaa	1680
catcattctc	agtaaaactat	cgcaagaaca	aaaaaccaaa	caccacatat	tctcactcat	1740
aggtgggaat	tgacaatggg	aacacatgga	cacaggaagg	ggaacatcac	actctgggga	1800
ctgttbtggg	gttggcggag	gggggagggg	tagcatttggg	agatatacct	aatgctagat	1860
gacgagtttag	tgggtgtcagt	gcagcagcat	ggcacatgta	tacatatgta	actaacctgc	1920
acaattgtgca	catgtcacct	aaaacttaaa	gtataatata	aaaaaaaaaa	agaacaaaaa	1980
ttaaaaaaaa	aaaaaaaaaa					1998

[illegible]

caccggaaaa tccagaatat ctggctttgc ttaatccatg cctggaaata actgctgggt 660
 ttgcaacaac ttctctcccc gagacagacc aaggaaacta caaaactgca ggaaggattg 720
 aagggccggg acagtggctc acgcctgtaa tcccaaagtg ctgaattaag cagctcacca 780
 tccacacggc tgacctcata catcaagcca ataccgtgtg gcccaagacc cccaccataa 840
 atcacatcat tagcatgaac caccagagt ggcccaagac tcccagatca gctaccaggc 900
 aggatattcc aagggttag agatgaatgc ccaggagctg aggataaagg gcccgatctt 960
 tctttgggca aggttaagcc ttactgcat agcagaccac acagaagggt gtgggccacc 1020
 agagaatttt ggtaaaaatt tggcctctgg ccttgagctt cttaaactct gtatccgtca 1080
 gatctctgtg gttacaagaa acagccactg accctggcca ccaggagctg caattcaggc 1140
 cgcaagcagc tgcctggggg gtgtccaagg agcagagaaa actactagat gtgaacttga 1200
 agaaggttgt cagctgcagc cactttctgc cagcatctgc agccacttcc tgccagcatc 1260
 tgcagccagc aagctgggac tggcaggaaa taaccacaa aagaagcaa tgcaatttcc 1320
 aacacaaggg ggaagggtat cagggggagg cagcgctgca gttgctcagg acacgctcct 1380
 ataggaccaa gatggatgag acccaagacc caggaggccc agctgctcag tgcaactgac 1440
 aagttaaaaa ggtctatgat cttgagggca gacagcagaa ttctcttat aaagaaaact 1500
 gtttgggaaa atacgttgag ggagagaaga ccttgggcca agatgctaaa tgggaatgca 1560
 aagcttgagc tgctctgcaa gagaaaaataa gcaggacaga ggatttgctc tgcacagaga 1620
 tggaaagacc gggaaacagag aagtgtgggg aagagatagg aaccagcagg atggcagggg 1680
 caaagggtc aagggtgagg agggcagtg gacccacag agttggggag ataaaggaac 1740
 attggttgct ttggtggcac gtaagctcct tgtctgtctc cagcaccag aatctcatta 1800
 aagcttattt attgtacctc cagcggtgtg gtgcaatggg gtcttttggt gaaatcaagg 1860
 agcagacagg tttcatgtgt actgtcacca cgtgggatgg aaccagaggc atggaagcaa 1920
 gacgctaaat gaagagggac ataagggtg ggattccag gctccttagg aacagcttgt 1980
 cttttttttt ttctctcca aaaaaaatgt ttaaggagc gtgacaagag tgagactctg 2040
 tctccaaaaa aaaaaaaaaa aaaaaaaaaa 2069

<210> 49

<211> 924

<212> DNA

<213> Homo sapiens

<400> 49

ggcacgagag acctccagac aatcccagaa gactctattg acttattctg tctgtttct 60
 ctttctaagc atgaaaatcc agcaacacgg tttccacagg ctctgaaaag tgcctcggg 120
 gctcgggttct tagctcacct ctgtgacct tcttgagttt gcttttcacc catgggttg 180
 tgacctattt caccattcgg ggggtgatag ataactaagg caagtaaaag gggcataatt 240
 tactgcctgc cctgctttt ccaattatcc catttgagcc tcgctaactt tttcctcacc 300
 tctctcacct ctctcacct caccgagttc ttccatttgc tctgtcagac cactgggtat 360
 agtgatgata acctgctttc actcccgtg tcatctcaaa caaaggcctg cttcaccaaa 420
 tggggtgttt cagcagcag cagctcacct ctacccaca gctgctctgc acgtggctca 480
 gggagagtct ctgagcacag atgtggaatg cagagtcccc ggctcatgc tcacccttct 540
 tttagctgta catcagcaaa ttctagtgg cttacctgtg caagttgggt ggagtctctg 600
 taacactgat ggtcctaaat tgctctgtgg aagacaaggc ctcatgcttc tcacaggaca 660
 tcattgccaa gcaagtaaac ataagtcaca aggtctttga aaatttgcta ggtactctgg 720
 ccatgagctc cactagactt coctccaagg atgacatcca gctgtatgag atagtttaaa 780
 gagatgcaaa tgacccaaa caggattatg cacaggattt taatttgcct gtgcctaaac 840
 agttactcta agaaaatttt caaatcaaca ctttgggtgt attctctgat atgggttgac 900
 tctgtgtccc caccacaatc tcat 924

<210> 50

<211> 2520

<212> DNA

<213> Homo sapiens

<400> 50

acgagcgct tgaggaggat gagtccctgg agctggttcc tgctgcagac cctctgcctc 60
 ctgcccacgg gcgcagcttc gcggcgcggg gcgcccggca ccgccaactg cgagctcaag 120
 ccccaacaaa gcgagctgaa ttcttcttgg tggaccatta agcgagaccc accatcttac 180
 ttcttttgga caatccatgt cccgtacacc cgagtttggg acttcatccc cgacaactct 240

```
<210> 51
<211> 3337
<212> DNA
<213> Homo sapiens
```

<400>	51						
gggttgatttc	cctcacaactt	tccacaggta	tcttaaaagc	tttgctcact	catcccttct		60
ctgacttagg	atttgagcat	ctttctgtta	tgctgttgcc	ccactcctat	tgcaatactc		120
ctcttcttaa	gaaagttttt	ctagactaat	gtctagatta	aactcttttt	ctttgacact		180
aatgatgcc	tgacttggac	aaaatgccca	ttgctctctgg	gtctctgcttt	cttcaccag		240
tgctgcctta	ttggactcct	tgtgcctctc	cttggtctggg	gaaatcagaa	tacacagtgg		300
tatcccactt	ctaagatgcc	tgatctgaag	gacagtaaaa	caactgacct	ttgccagcat		360
gtaaaacaca	tggtttaact	agtccctccg	gaacaacamt	gagcaatcct	gacctggggc		420
tactttactc	ggccatcttc	tacttgagat	gctccttgtc	tctctgttca	aggacacctt		480
ttctgagcct	tcttgaaca	agagtggagg	accgataggc	gattaaactg	tccttgacac		540
aacttttag	cttcwactga	gaacttagaa	gagagttagt	ggaaaaatat	ttttccctcc		600
cctccaaatg	caaggataat	cttacacgag	tccaggagga	aggctcattc	cacactaagt		660
gttctgaaac	aaaagatga	acaaaataca	gtgccattct	tcaaggrcct	cacagtctac		720
aggaaaaggw	tatagttaaa	caaataactg	cagaattctga	aattggagct	gatgtgctta		780
gaagtgtttt	gaacaagggg	catgactgtg	actctctctg	cttttgcaag	cttccaggaaa		840
acctttactc	acagttgaaa	atacagagcc	tcagggtgaa	gccctaaact	cccacagcag		900

atgggggtcta tgaggaggaa gaagtagacg catggaccag tcctgttatg aagacaagtt 960
 tcatgggtgct actgtgtctc catgagctcc tatggcccag aagctggcat cctgtgagtg 1020
 gacggagttct tgctcgggtcg cccaggctgg agtgcagtta aatgaaaaaa cgtaccacaga 1080
 cagagggttct aaaacagcac caaaatatta atttaatgag tggagawtag ttttctttat 1140
 caacactaca attttctttt cttttttttt tttttttttt ttttgagacg tagtctcact 1200
 ctgtcgctca ggctggagtg cagtggcaca atctcggtc actgcaagct ccgctcccgc 1260
 ggttcacacc attctcctgc ctccagctcc caagtagctg ggactacagg tgcccaccac 1320
 cagcccagc taatgttctg tatttttagt agagatgggg tttcactgtg ttatctagga 1380
 tggctcgatc tcctgacctc gtgatctgcc cgctcggtc cccaaagtgc tgggaattaca 1440
 ggtgtgagcc acattgcccg gccattttat gktgktttta tccatctaac cagccaccat 1500
 atattgtgtg cttcccattg accacaacac attctgagaa cttgccacac atgctctact 1560
 ttctgtttca catcaacaat gtgaatctta agctgtgctg aattttgtcc aaaatgactc 1620
 agataggaaa aggcagaata aggaatacat tccagttgtc tccaaagtcc acccttttct 1680
 aagtgtcaca ttatattgtc cttgccactg gcacacagct taaataaaaag tcaaacctatg 1740
 agaagccata gaaagtaata tcagagtaca ggtgagaagt tgcacttaca taaatgatca 1800
 ttcaagactt cctggagaag gcacgagttg tcctttggag tgaccaagac tcacttccaa 1860
 gtagaaagct cagtaatttt gcttgagaga tagcatggaa agggcccagc cttcagagtg 1920
 tggctgactt gaatttgagc tctatcttca tctatttcta cccatgtgcc tctggacatc 1980
 ttacttaacc tctctgaate ttcattctgt cattgtgaga aacctgattg acttgttgta 2040
 aagattaaag aaatcatgaa acacatctag tccaaaactg atactatagt agacatttaa 2100
 caagtgtgtt ttgatttaat tcaagtctct aggttatagt aagacaatgg caaaatatta 2160
 attaatcagc ttctccagtt tgtgcgtttg agaagggtaa gccaaaggag gactttgttt 2220
 tcatatctca tattgcatcg tttgtcataa aaattacaca ttatacaag cgcgcacaca 2280
 cacacacaca cacaggcaca aacactcaga catgagccac aatccacaat gaaggagtg 2340
 ttagagtgtc taggcaccat aataaaacttt cacataaagt acagcagtag cattcttaat 2400
 taaaatctct aaagtactct tgttgttgac aatatcroca cccaaagcca tatttacctt 2460
 gtttaattatt caagttgcag tgaataagaa acaatgcccc ggcttcccat aaaatttcca 2520
 aaaattadac cagggaaatg ggcaataaat gtcatttgaa atggaactga tgccagttaa 2580
 ttacaagaca actgtaaaaa aatggggcat gaggttcttc aacaatgcct aattagtaac 2640
 tatatgggca tttccttgga aaaaatggca attacacggg gcaaacactt agcagtcac 2700
 atcaaaggcc ctttaaccaat attagctaata taactctccc tacaacactc cagcaggagg 2760
 cagcacaagt cctcattgag ggaggggagaa kggaaagccaa aagatgaaat ggaaaaactc 2820
 cttctgctca gcatctgtaa agaacaattt gacactcgca gcctagaagc actcaggagg 2880
 gattccaggr ccaagagaga gaggtttctt taatgataag gttaatgtgg tgaacaccta 2940
 gcttctcctt gatttgcctg catggctcac atccttgcctg tccycgagaa ctccccacac 3000
 caaattgctg ttgcaggcac acatgcactc ttgcgcttat caaccctttt ctctttttct 3060
 cagcaagaag gcttttgacc tcaaatatat aaaaccaatg ggggggagaag gaagctatgc 3120
 ctctttccac aaagccaagc ttgttatatt ataacatgat ccacagcttt tgatttcaac 3180
 ttaattgtatg agatctggaa ttatttcaga agtatgattg attttgatca ggtgaagata 3240
 ttttaaaaga agtgaattat ctcttatggtt acttaattta atccacatta aagatttatg 3300
 acaaaaaaaa aaaaaaaaaa aaaaaaaggg cggccgcg 3337

<210> 52
 <211> 1947
 <212> DNA
 <213> Homo sapiens

<400> 52
 gttgaagcag aatggctgca agatgtgggt ttatcaactc tgatctcagg tgatgaagag 60
 gaagatggca aagccttgct ctccacattg actcgaaccc aagcagctgc cgtgcaaaag 120
 agataccata cctataccca aaccatgagg aaaaaggata agcaatctat cagggatgtc 180
 agagacattt ttggagtcag tgaatctcct cctcgtgata cctgtggcaa ccacactaat 240
 cagctggatg gcaccaagga agaaagagag cttccaagag ttatcaagac aagtggttcc 300
 atgcagatg atgcttctct caacagtact accctgtctg acgcatocca ggataaagaa 360
 gggagttttg cgggttcccag gaggactct gtggctatac ttgagacat tccagttcta 420
 ccagttcatt ccaatggatc accggagcct ggacagccag ttcagaatgc gataagtgat 480
 gatgattttc tggaaaagaa cattycacca gargctgaag agctgtcatt tgaagtgtct 540
 tattcagaaa tggttacgga ggctctaaaa agaaataaac ttaagaaatc agagattaag 600
 aaagaagact atgttttaac taaatttaat gktcagaaaa ccagattttg ctttaactga 660
 agcaggagat ctgkctgctg aagacatgaa gaaaatccgs catctctcty tgawtgaatt 720

gactgccttt tttgawgcct ttgggaattc rrctgaaaag gaacccaaac agagaaagta 780
 aaaggacsag acaatgggat ttttggagtt ccacttacag tcctcctgga cggtgaccga 840
 aagaaagacc ctggagtgaa agttccccct ggtattacaa aaatTTTTTg agaaagttga 900
 ggaatcaggt ctggaatctg aaggaatttt tcgactttca ggatgtactg ctaaagtcaa 960
 gcaataccgt gaagaacttg atgccaagtt taatgctgat aaattttaaT gggacaaaat 1020
 gtgccataga gaagctgcag taatgttgaa agcgtttttc agagaactac ccacctctct 1080
 cttccctgtg gaatatatac ctgccttcat cagtctaattg gaaagagggc ctcacgtcra 1140
 agtacagttt caagccttac acmtcrkgst catggcgctg cctggatgcc aacagagatg 1200
 cagctcaggc cctcatgaca ttcttcaata aagtgattgc caatgaatca aaaaaccgaa 1260
 tgagtctgtg gaacattttct acagtgatgg caccgaacct tttsttcagt agaagcaaac 1320
 actctgatta tgaagaatta ctggttagcaa acaytgccgc ccacatcatc cgcctaattg 1380
 ttaagtacca gaagattttg tggaagggtc cgtcttttwt taatcactca agtaagaaga 1440
 attgaatgaag ccacgatgct attgaagaag cagctcccaa gtgtcaggaa gctgctcagg 1500
 aggaagacc tcgagcggga gactgcaagc cccaagactt caaagggtact gcaaaaatca 1560
 ccctcggaac gacgaatgtc tgacgtgccg gaaggagtca tacgggtcca tgctccactt 1620
 ctctccaagg tgtccatggc cattcaactc aacaatcaaa ccaaagccaa agacatatg 1680
 gcaaaatttc aatatgaaaa cagtcattgt tcatcagaat gtattaagat tcagaaccaa 1740
 aggttatatg aaattggagg aaatatagga gagcattgct tggatccaga tgcttatata 1800
 ttggatgtat atcgtataaa tcctcaagca gaatgggtga ttaaaccoca accaagttct 1860
 taaaatatcc tcgagagagc tgctatcatg tattatatgc caaaaagatc ctacattttg 1920
 ttagggaaaa amaacactgt gtctgac 1947

<210> 53
 <211> 734
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (678)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (681)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (694)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (709)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (732)
 <223> n equals a,t,g, or c

<400> 53
 ggcacagcat gcccttgact ggcacaaacc gtgacagaca tgcccttgac tggcacaac 60
 catgacagac aaggccacct cctcagaagc ggaacaacct attatctttt ggcaatggga 120
 gctaaacttca ctgttttctt acaatactcg gtttttcta tctttgggtt ctttttgatt 180
 atctctcatc catctcagcc actattctcc tccctccctc tgtgtctaca acacccatt 240
 ttaccaagtc tcccatttaa cctcccccac cttttctttc ccttaaagtc tcatatgata 300
 ctgcagtcct catttgtctt cccaaaaaaa aaaaagaatt tttttttttt taaggaatcc 360
 ttccttgact cctaaagact cctaaggatg ctgaggcctc ctcagcatga tttccatata 420

cttacttttct	ctgttggtgact	gcagacaact	tgaaagcagg	aacttttgca	gtgtttcccc	480
agcaccagca	tcattgcctgg	tccatagtag	ctaccaataa	aaaagtaagc	atcatgaacc	540
caaaaaaaaaa	aaaaaaaaaac	tcgagagtag	ttctagagcg	gccgcgggcc	atcgatttcc	600
acccgggttg	ggtaccaggt	aagtgtaccc	aattcgccct	atagttagtc	gtattacaat	660
tcattggcgt	cggtttanaa	ngtcgtgact	gggnaaacct	ggggggttanc	caacttaaac	720
gccttggtgg	anat					734

<210> 54

<211> 1182

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1119)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1128)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1131)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1147)

<223> n equals a,t,g, or c

<400> 54

tcaaaacaag	ataaagttaa	aaaaaaaaaa	aaaacagtga	cccttttgca	taagccagaa	60
gagcagtgcc	ttgcttcctg	tgaaaaaatgc	ttggcagtta	gcctgtgtaa	ttatttagca	120
atcatgttaa	tagatgttta	agaataatgg	aactggagct	gtactgagcc	aaggatggaa	180
atgaagacat	gtgagactat	tttttcttca	tccaccgata	ctcttcagtt	acaaggattt	240
aatttaaaag	ggttttaatt	aaatggaatc	cagaagcttt	ggacgctcca	gtttttcttc	300
ttagagacaa	accctagctc	agtttcctgg	agcttgactc	agaatgcagc	atgggtactcc	360
ggactgacag	tgtgccagct	ttattcactt	atctctctac	cttttggtt	gcattttattt	420
cagggtctggc	tgacattttg	accttatgta	caaagatggc	cgatacgatt	atttttcatc	480
atatattaca	gaaaaatacta	ctcttgaaaa	atactctgag	aaatatgttc	tatgggtcaga	540
taagtttggg	aaacagtga	ttattgttcc	tcctttgcag	aatcacaaatg	cactgttagc	600
taattaaaga	ctctcagatg	tcccactgga	aagaatcatg	tttagctttg	tttaacctag	660
catttcccaa	acttattaga	gcataaaact	ttgtttttgt	ttttttttta	ataagatagg	720
tagctatttc	cttagaacac	agtttgaggaa	actttttgtt	catttgtttt	aataagatac	780
cttaggtagc	tatttcctta	gaacacgagc	cgggtgcagt	ggctcacgcc	tgtaatccca	840
gcactttggg	aggcccaggc	gggcggtatca	cctgaggtca	ggagatcgag	atcatccggc	900
ccaacatggt	gaaaccccg	ctctactaaa	aagacaaaaa	ttagccagcc	atgggtggcag	960
gcacctgtag	tcctagctac	tgtggagggt	gaggcaggag	aatcacttga	acccgggatg	1020
gggaggttgc	agttagctga	gatggcgcca	ctgtactcca	gcctgggcga	cgagcaaaaa	1080
ctccttcaa	aaaaaaaaaa	aaaaactcga	gagtacttnt	agagcggnccg	ngggcccatc	1140
gattttncac	cgggtgggg	taccaggtaa	gtggacccaa	tt		1182

<210> 55

<211> 1866

<212> DNA

<213> Homo sapiens

T02070"3625550


```
<210> 60
<211> 2508
<212> DNA
<213> Homo sapiens
```

<400>	60
tacagctga ggaagacctc agacatggag tccaggatgt ggccctgcgct gctgctgtcc	60
cacctccccc ctctctggcc actgctgttg ctgcccccctc caccgcctgc tcagggtctct	120
tcatcctccc ctcgaaacccc accagggcca gcccccgcctc cgttgtgccag gggaggcccc	180
tcgcgccccac gtcatgtgtg cgtgtggag cgagcacctc caccaagccg atctcctcgg	240
gtcccaagat acagtgcgca agtctcgcct ggactgcac cccagccac ccctcaggc	300
tttagggagg ggcgcgcctc atcccaatac cctgggcta tgttgtggg tcccaccgtg	360
tctcgagagg atggagggya ccccaactct gccaatcccg gatctctgga ctatggtttt	420
gcagcccctc atgggctcgc aaccccacac cccaactcag actccatgcy aggtgatgga	480
gatgggctta tccctggaga ggcactgcgc acctgcggt cattcttgt cgggggcctg	540
ggggcaaggta gcgaecccc cctctatgtc acaattacca ttccatcat catgtgtctc	600
gtggccactg gcatcatctt caagtctcgc tgggaccgca gccagaagcg acgcagacct	660
tcagggcagc aaggtgccct gaggcaggag gagagccagc agccactgac agacctgtcc	720
ccggtctggg tcaactgtgt gggggccttc ggggaactcac ctaccccccac cctgaccat	780
gatgagcccc gagggggacc ccggcctggg atgccccacc ccaagggggc tccagccttc	840
cagttgaacc ggtgagggya ggggcaattg gatggggag caaaggagga aggcaactta	900
gggtctcaga gctggggtgg gggctgcctc ttgagtggta gcgaggaagc aggcgtggcc	960
tcccacagcc cctgggcctc ccaagggggc tggaccagct cctctctggg aggcaacctt	1020
acttctccca gtctctcagg atctgtgccc tattctctgc tgcccataac tccactctg	1080
ccctatttgg tcttttctca tgcacacctg tctaagaaaa ctctgcctc ttaaccttga	1140
ttccccctct ttgtcttgaa ctcccccttc tattctggcc taccccttgg ttcctgactg	1200
tgcccttttc ctctctctc caggattccc ctggtgaate tgttatgcc ccaattgttg	1260
gggtcagcca agcaggagcg caaggggccg gcacagcccc catcccactc aggggtgggc	1320
agctgtgggg agctggggcc acaggggctc ctggctcctg ccccttgca accaccgga	1380
aactccccca gccccacggg caatcctatc tgctgcctc cctgcaggty ggggcctcac	1440
atatctgtga ctccgggtcc ctgtccccac cctgtgtcac tcacatgaaa gccttgaca	1500
ctcacctcca ccttcacagg ccatttgca acgtcctgct accctctccc cgtccatacc	1560
gctccgctca gctgactctc atgttctctc gctccacatt tgcactctc ctctccca	1620
ttctgtctc agctactca tgggtcagc ttctctgca actttacctc ctatgtcgt	1680
ttccggcct gatgttgtgg tgggtgtcgg cgtgctcact ctctcctca tgaacacca	1740
cccacctcgt ttcgcagcc cctgcgtgtc gctccaggag tgggtgggag gtgagctggg	1800
ggctccttgg gccctcatcg gtcatggtct cgtcccattc cacaccattt gttctctgt	1860
ctcccatcc tactccaagg atgcggcat caccctgagg gctccccctt ggggaatggg	1920
tagtgaggcc ccagacttca cccccagccc actgctaaaa ctgttttct gagagatggg	1980
ttttgggag tccctgtctg captacatga gaaggagact cccatttgcc ctctcccttc	2040
tactacagtc ccttttgtct gtctgtcctt ggctgtctgt gtgtgtgcca ttctctggac	2100
ttcagagccc cctgagccag tctcccttc ccagcctccc ttggggctc cctaactcca	2160
cctaggtctc cagggaccgg agtcagctgg ttcaaaggcca tcgggagctc tgcctccaag	2220
tctacccttc ccttcccyya ctccctccty tcccctcctt tectcctcc ttcttccac	2280
tctccttctc ttgtctccc tgccttcttc cctcctcag gttcttccct ccttctcact	2340
ggtttttcca ccttctcctc tcccttcttc cctggctcct aggtctgfat atattttt	2400
qtattatctc ttctctcttc ttgtgggtgat catcttgaat tactgtggga tghtaagttt	2460

2508

[illegible]

```
<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```

<400> 62
Met Ala Ser His Gly Leu Cys Pro Cys Leu Leu Met Gly Thr Gly Trp
  1                               10                      15

Gly Leu Trp Thr Leu Leu Pro Asp Leu Glu Val Met Ala Gly Lys Gly
      20                      25                      30

Arg Met Pro Phe Ala Gly Ile Ser Val Thr Ser Gly Phe Leu Arg Ser
      35                      40                      45

Leu Lys Arg Ala Pro Leu Pro His Thr Gly Ser Pro Asp Pro Arg Pro
      50                      55                      60

Ser Gly Ile Trp Ser Gly Val Arg Thr Thr Ser Glu Glu Ala Gly Ala
      65                      70                      75                      80

Thr Ser Thr Gln Ile Ser Thr Ala Ala Pro Arg Phe His Ser Arg Arg
      85                      90                      95

Lys Gly Pro Lys Arg Asn Leu Ala Pro Gln Leu Arg Val Leu Val His
      100                      105                      110

Arg Thr Val Pro Pro Gly Gln Leu Val Tyr Ala Pro Gln Thr Val Asp
      115                      120                      125

```

Leu His Glu Ile Asn Gly Asp His Leu Lys Ile Cys Pro Gln Gly Ser

50	55	60
Thr Cys Cys Ser Gln Glu Met Glu Glu Lys Tyr Ser Leu Gln Ser Lys 65 70 75 80		
Asp Asp Phe Lys Ser Val Val Ser Glu Gln Cys Asn His Leu Gln Ala 85 90 95		
Val Phe Ala Ser Arg Tyr Lys Lys Ser Asp Glu Phe Phe Lys Glu Leu 100 105 110		
Leu Glu Asn Ala Glu Lys Ser Leu Asn Asp Met Phe Val Lys Thr Tyr 115 120 125		
Gly His Leu Tyr Met Gln Asn Phe Glu Leu Phe Lys Asp Leu Phe Val 130 135 140		
Glu Leu Lys Arg Tyr Tyr Val Val Gly Asn Val Asn Leu Glu Glu Met 145 150 155 160		
Leu Asn Asp Phe Trp Ala Arg Leu Leu Glu Arg Met Phe Arg Leu Val 165 170 175		
Asn Ser Gln Tyr His Phe Thr Asp Glu Tyr Leu Glu Cys Val Ser Lys 180 185 190		
Tyr Thr Glu Gln Leu Lys Pro Phe Gly Asp Val Pro Arg Lys Leu Lys 195 200 205		
Leu Gln Val Thr Arg Ala Phe Val Ala Ala Arg Thr Phe Ala Gln Gly 210 215 220		
Leu Ala Val Ala Gly Asp Val Arg Glu Gln Gly Leu Arg Gly Lys Pro 225 230 235 240		
His Ser Pro Val Tyr Pro Cys Pro Val Glu Asp Asp Leu Leu Leu Pro 245 250 255		
Leu Pro Gly Ser Arg Asp Cys Glu Ala Met Leu Gln Leu Leu Leu Lys 260 265 270		
His His Glu Arg Leu Phe Gly Gln Pro Arg Gly Ser Arg Phe 275 280 285		

<210> 65

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 65

098955398.070201


```

<400> 66
Met Lys Ala Pro Gly Arg Leu Val Leu Ile Ile Leu Cys Ser Val Val
  1          5          10          15

Phe Ser Ala Val Tyr Ile Leu Leu Cys Cys Trp Ala Gly Leu Pro Leu
      20          25          30

Cys Leu Ala Thr Cys Leu Asp His His Phe Pro Thr Gly Ser Arg Pro
      35          40          45

Thr Val Pro Gly Pro Leu His Phe Ser Gly Tyr Ser Ser Val Pro Asp
      50          55          60

Gly Lys Pro Leu Val Arg Glu Pro Cys Arg Ser Cys Ala Val Val Ser
  65          70          75          80

Ser Ser Gly Gln Met Leu Gly Ser Gly Leu Gly Ala Glu Ile Asp Ser
      85          90          95

Ala Glu Cys Val Phe Arg Met Asn Gln Ala Pro Thr Val Gly Phe Glu
      100          105          110

Ala Asp Val Gly Gln Arg Ser Thr Leu Arg Val Val Ser His Thr Ser
      115          120          125

Val Pro Leu Leu Leu Arg Asn Tyr Ser His Tyr Phe Gln Lys Ala Arg
      130          135          140

Asp Thr Leu Tyr Met Val Trp Gly Gln Gly Arg His Met Asp Arg Val
  145          150          155          160

Leu Gly Gly Arg Thr Tyr Arg Thr Leu Leu Gln Leu Thr Arg Met Tyr

```

165 170 175
 Pro Gly Leu Gln Val Tyr Thr Phe Thr Glu Arg Met Met Ala Tyr Cys
 180 185 190
 Asp Gln Ile Phe Gln Asp Glu Thr Gly Lys Asn Arg Arg Gln Ser Gly
 195 200 205
 Ser Phe Leu Ser Thr Gly Trp Phe Thr Met Ile Leu Ala Leu Glu Leu
 210 215 220
 Cys Glu Glu Ile Val Val Tyr Gly Met Val Ser Asp Xaa Tyr Cys Arg
 225 230 235 240
 Glu Lys Ser His Pro Ser Val Pro Tyr His Tyr Phe Glu Lys Gly Arg
 245 250 255
 Leu Asp Glu Cys Gln Met Tyr Leu Ala His Glu Gln Ala Pro Arg Ser
 260 265 270
 Ala His Arg Phe Ile Thr Glu Lys Ala Val Phe Ser Arg Trp Ala Lys
 275 280 285
 Lys Arg Pro Ile Val Phe Ala His Pro Ser Trp Arg Thr Glu
 290 295 300

<210> 67
 <211> 149
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (99)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (124)
 <223> Xaa equals any of the naturally occurring L-amino acids

009559.0001

Val Val Gly Ser Phe Leu Phe Ile Leu Ile Gln Leu Val Leu Leu Ile
 65 70 75 80
 Asp Phe Ala His Ser Trp Asn Gln Arg Trp Leu Gly Lys Ala Glu Glu
 85 90 95
 Cys Asp Ser Arg Ala Trp Tyr Ala Gly Leu Phe Phe Phe Thr Leu Leu
 100 105 110
 Phe Tyr Leu Leu Ser Ile Ala Ala Val Ala Leu Met Phe Met Tyr Tyr
 115 120 125
 Thr Glu Pro Ser Gly Cys His Glu Gly Lys Val Phe Ile Ser Leu Asn
 130 135 140
 Leu Thr Phe Cys Val Cys Val Ser Ile Ala Ala Val Leu Pro Lys Val
 145 150 155 160
 Gln Asp Ala Gln Pro Asn Ser Gly Leu Leu Gln Ala Ser Val Ile Thr
 165 170 175
 Leu Tyr Thr Met Phe Val Thr Trp Ser Ala Leu Ser Ser Ile Pro Glu
 180 185 190
 Gln Lys Cys Asn Pro His Leu Pro Thr Gln Leu Gly Asn Glu Thr Val
 195 200 205
 Val Ala Gly Pro Glu Gly Tyr Glu Thr Gln Trp Trp Asp Ala Pro Ser
 210 215 220
 Ile Val Gly Leu Ile Ile Phe Leu Leu Cys Thr Leu Phe Ile Ser Leu
 225 230 235 240
 Arg Ser Ser Asp His Arg Gln Val Asn Ser Leu Met Gln Thr Glu Glu
 245 250 255
 Cys Pro Pro Met Leu Asp Ala Thr Gln Gln Gln Gln Gln Val Ala
 260 265 270
 Ala Cys Glu Gly Arg Ala Phe Asp Asn Glu Gln Asp Gly Val Thr Tyr
 275 280 285
 Ser Tyr Ser Phe Phe His Phe Cys Leu Val Leu Ala Ser Leu His Val
 290 295 300
 Met Met Thr Leu Thr Asn Trp Tyr Lys Pro Gly Glu Thr Arg Lys Met
 305 310 315 320
 Ile Ser Thr Trp Thr Ala Val Trp Val Lys Ile Cys Ala Ser Trp Ala
 325 330 335
 Gly Leu Leu Leu Tyr Leu Trp Thr Leu Val Ala Pro Leu Leu Leu Arg
 340 345 350
 Asn Arg Asp Phe Ser
 355

<210> 69
 <211> 111
 <212> PRT

<400> 69

Leu Ile Asn Leu Gly Sér Thr Gln Cys Ser Leu Asp Ser Val Met Asp
20 25 30

Lys Lys Ile Lys Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro
35 40 45

Ile Ser Lys Lys Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro
50 55 60

Ser Ser Cys Pro Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr
65 70 75 80

Gly Cys Gly Ser Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln
85 90 95

Cys Ser Val Val Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr
100 105 110

<211> 183

<212> PRT

<213> Homo sapiens

<400> 70

Met Ile Cys Ser Gly Phe Phe Gly Trp Trp Trp Trp Trp Cys Phe Leu
1 5 10 15

Met Gly Leu Ser Gly Phe His Gln Thr His Phe Pro Ala Ala Val Trp
20 25 30

Ser Gly Pro Glu Asn Thr Lys Pro Pro Asp Pro Arg Pro Thr Pro Thr
35 40 45

His His Pro Ala Ser Ala Ala Leu Ser Gln Asp Ser His Gly Asn Glu
50 55 60

Gly Ile His Leu Leu Pro Asp Thr His Trp Ala Leu Arg Pro Ser Gln
65 70 75 80

Gly Pro His Asn Gly Pro Gln Arg Arg Gly Pro Thr Thr Cys Trp Ile
85 90 95

Phe Pro Gly Lys Gly Val Arg Gly Trp Arg Gly Arg Ala Val Arg Leu
100 105 110

Phe Pro Ala Pro Ser Pro Ile Cys Thr Leu Val Ala Arg Val Ser Gln
115 120 125

Arg Gly His Pro Cys Pro Arg Thr Leu Ser Pro Ser Ser Ala Pro Cys
130 135 140

Phe Leu Ile Leu Lys Leu Gln Gly Gly Trp Glu Asp Ser Asn Gly Asn
145 150 155 160

Gly Ser Lys Asp Thr Leu Arg Asn Cys Gly Leu Pro Asp Lys Glu Ser
 165 170 175

Lys Arg Leu Gly Leu Gln Ala
 180

<210> 71

<211> 253

<212> PRT

<213> Homo sapiens

<400> 71

Met Ile Val Gly Ser Pro Arg Ala Leu Thr Gln Pro Leu Gly Leu Leu
 1 5 10 15

Arg Leu Leu Gln Leu Val Ser Thr Cys Val Ala Phe Ser Leu Val Ala
 20 25 30

Ser Val Gly Ala Trp Thr Gly Ser Met Gly Asn Trp Ser Met Phe Thr
 35 40 45

Trp Cys Phe Cys Phe Ser Val Thr Leu Ile Ile Leu Ile Val Glu Leu
 50 55 60

Cys Gly Leu Gln Ala Arg Phe Pro Leu Ser Trp Arg Asn Phe Pro Ile
 65 70 75 80

Thr Phe Ala Cys Tyr Ala Ala Leu Phe Cys Leu Ser Ala Ser Ile Ile
 85 90 95

Tyr Pro Thr Thr Tyr Val Gln Phe Leu Ser His Gly Arg Ser Arg Asp
 100 105 110

His Ala Ile Ala Ala Thr Phe Phe Ser Cys Ile Ala Cys Val Ala Tyr
 115 120 125

Ala Thr Glu Val Ala Trp Thr Arg Ala Arg Pro Gly Glu Ile Thr Gly
 130 135 140

Tyr Met Ala Thr Val Pro Gly Leu Leu Lys Val Leu Glu Thr Phe Val
 145 150 155 160

Ala Cys Ile Ile Phe Ala Phe Ile Ser Asp Pro Asn Leu Tyr Gln His
 165 170 175

Gln Pro Ala Leu Glu Trp Cys Val Ala Val Tyr Ala Ile Cys Phe Ile
 180 185 190

Leu Ala Ala Ile Ala Ile Leu Leu Asn Leu Gly Glu Cys Thr Asn Val
 195 200 205

Leu Pro Ile Pro Phe Pro Ser Phe Leu Ser Gly Leu Ala Leu Leu Ser
 210 215 220

Val Leu Leu Tyr Ala Thr Ala Leu Val Leu Trp Pro Leu Tyr Gln Phe
 225 230 235 240

Asp Glu Lys Tyr Gly Gly Ser Leu Gly Ala Arg Glu Met
 245 250

068556650"070001

```

<400> 73
Met Val Val Leu Phe Arg Trp Val Pro Val Thr Asp Ala Tyr Trp Gln
  1              5              10              15

Ile Leu Phe Ser Val Leu Lys Val Thr Arg Asn Leu Lys Glu Leu Asp
      20              25              30

Leu Ser Gly Asn Ser Leu Ser His Ser Ala Val Lys Ser Leu Cys Lys
      35              40              45

Thr Leu Arg Arg Pro Arg Cys Leu Leu Glu Thr Leu Arg Leu Ala Gly
      50              55              60

Cys Gly Leu Thr Ala Glu Asp Cys Lys Asp Leu Ala Phe Gly Leu Arg
      65              70              75              80

Ala Asn Gln Thr Leu Thr Glu Leu Asp Leu Ser Phe Asn Val Leu Thr
      85              90              95

Asp Ala Gly Ala Lys His Leu Cys Gln Arg Leu Arg Gln Pro Ser Cys
      100             105             110

Lys Leu Gln Arg Leu Gln Leu Val Ser Cys Gly Leu Thr Ser Asp Cys
      115             120             125

Cys Gln Asp Leu Ala Ser Val Leu Ser Ala Ser Pro Ser Leu Lys Glu
      130             135             140

```

```

<400> 76
Met Ala Phe Phe Phe Thr Phe Met Ala Gln Leu Val Ile Ser Ile Ile
  1             5             10             15

```


<400> 78
Met Gln Ile Leu Gly Val Val Leu Thr Leu Leu Gly Trp Val Asn Gly
1 5 10 15

Leu Val Ser Cys Ala Leu Pro Met Trp Lys Val Thr Ala Phe Ile Gly
20 25 30

Asn Ser Ile Val Val Ala Gln Val Val Trp Glu Gly Leu Trp Met Ser
35 40 45

Cys Val Val Gln Ser Thr Gly Gln Met Gln Cys Lys Val Tyr Asp Ser
50 55 60

Leu Leu Ala Leu Pro Gln Asp Leu Gln Ala Ala Arg Ala Leu Cys Val
65 70 75 80

Ile Ala Leu Leu Val Ala Leu Phe Gly Leu Leu Val Tyr Leu Ala Gly
85 90 95

Ala Lys Cys Thr Thr Cys Phe Tyr Ile Arg Ile Pro Arg Pro Ala Trp
100 105 110

Cys Ser Pro Leu Gly Leu Ser Leu Ser Ser Gln Gly Ser
115 120 125

<210> 79

<211> 218

<212> PRT

<213> Homo sapiens

<400> 79

Met Glu Ser Arg Met Trp Pro Ala Leu Leu Leu Ser His Leu Leu Pro
1 5 10 15

Leu Trp Pro Leu Leu Leu Leu Pro Leu Pro Pro Pro Ala Gln Gly Ser
20 25 30

Ser Ser Pro Pro Arg Thr Pro Pro Pro Pro Ala Arg Pro Pro Cys Ala
35 40 45

Arg Gly Gly Pro Ser Ala Pro Arg His Val Cys Val Trp Glu Arg Ala
50 55 60

Pro Pro Pro Ser Arg Ser Pro Arg Val Pro Arg Ser Arg Arg Gln Val
65 70 75 80

Leu Pro Gly Thr Ala Pro Pro Ala Thr Pro Ser Gly Phe Glu Glu Gly
85 90 95

Pro Pro Ser Ser Gln Tyr Pro Trp Ala Ile Val Trp Gly Pro Thr Val
100 105 110

Ser Arg Glu Asp Gly Gly Asp Pro Asn Ser Ala Asn Pro Gly Phe Leu
115 120 125

Asp Tyr Gly Phe Ala Ala Pro His Gly Leu Ala Thr Pro His Pro Asn
130 135 140

Ser Asp Ser Met Arg Gly Asp Gly Met Gly Leu Ser Leu Glu Arg His
145 150 155 160

Leu Pro Pro Cys Gly His Ser Cys Ser Gly Ala Val Gly Lys Val Trp
165 170 175

0565660 102070 8825660

Phe Leu Xaa Val Leu Xaa Xaa Leu Val Ile Pro Ile Arg Tyr Tyr Val
65 70 75 80

Arg Xaa Arg Leu Gly Asn Leu Thr Val Thr Gln Xaa Ile Leu Lys Lys
85 90 95

Glu Asn Pro Phe Ser Thr Ser Ser Ala Trp Leu Ser Asp Ser Tyr Val
100 105 110

Ala Leu Gly Ile Leu Gly Phe Phe Leu Phe Val Leu Leu Gly Ile Thr
115 120 125

Ser Leu Pro Ser Val Ser Asn Ala Val Asn Trp Arg Glu Phe Arg Phe
130 135 140

Val Gln Ser Lys Leu Gly Tyr Leu Thr Leu Ile Leu Cys Thr Ala His
145 150 155 160

Thr Leu Val Tyr Gly Gly Lys Arg Phe Leu Ser Pro Ser Asn Leu Arg
165 170 175

Trp Tyr Leu Pro Ala Ala Tyr Val Leu Gly Leu Ile Ile Pro Cys Thr
180 185 190

Val Leu Val Ile Lys Phe Val Leu Ile Met Pro Cys Val Asp Asn Thr
195 200 205

Leu Thr Arg Ile Arg Arg Ala Gly Lys Gly Thr Gln Asn Thr Arg Lys
210 215 220

Ser Ile Glu Trp Lys Ile Asn Ile
225 230

<210> 81

<211> 121

<212> PRT

<213> Homo sapiens

<400> 81

Met Val Phe Phe Thr Cys Leu Trp Phe Leu Asn Glu His Ile Leu Val
1 5 10 15

Cys Asn Cys Ser Asn Val Ser Leu Cys Tyr Ser Leu Pro Leu Lys Glu
20 25 30

Lys Ile Thr Phe Phe Tyr Asn Leu Thr His Tyr Phe Phe Asn Arg Cys
35 40 45

Phe Lys His Leu Phe Val Phe Val Glu Gln Ile Phe Leu Asn Ile Val
50 55 60

Tyr Thr Arg Asn Leu Ile Val Tyr Phe Ser Glu Leu Asn Tyr Ala Ile
65 70 75 80

Cys Ser Ser Val Asn Glu Ala Leu Thr Val Gln Ser Asn Pro Leu Lys
85 90 95

Val Leu Pro Trp Glu Ile Arg Arg Val Ser Asn Ser Gln Cys Leu Ser
100 105 110

Leu Ile Ser Val Pro Tyr Asn Asn Thr
115 120

000598.0001

```

<400> 82
Met Asn Pro Gln Thr Val Leu Leu Leu Arg Val Ile Ala Ala Phe Cys
  1                               10                      15

Phe Leu Gly Ile Leu Cys Ser Leu Ser Ala Phe Leu Leu Asp Val Phe
      20                               25                      30

Gly Pro Lys His Pro Ala Leu Lys Ile Thr Arg Arg Tyr Ala Phe Ala
      35                               40                      45

His Ile Leu Thr Val Leu Gln Cys Ala Thr Val Ile Gly Phe Ser Tyr
      50                               55                      60

Trp Ala Ser Glu Leu Ile Leu Ala Gln Gln Gln Gln His Lys Lys Tyr
      65                               70                      75                      80

His Gly Ser Gln Val Tyr Val Thr Phe Ala Val Ser Phe Tyr Leu Val
      85                               90                      95

Ala Gly Ala Gly Gly Ala Ser Ile Leu Ala Thr Ala Ala Asn Leu Leu
      100                               105                      110

Arg His Tyr Pro Thr Glu Glu Glu Glu Gln Ala Leu Glu Leu Leu Ser
      115                               120                      125

Glu Met Glu Glu Asn Glu Pro Tyr Pro Ala Glu Tyr Glu Val Ile Asn
      130                               135                      140

Gln Phe Gln Pro Pro Pro Ala Tyr Thr Pro
      145                               150

```

```

<400> 83
Met Met Asn Phe Gln Pro Pro Ser Lys Ala Trp Arg Ala Ser Gln Met
  1                      5                      10                      15

Met Thr Phe Phe Ile Phe Leu Leu Phe Phe Pro Ser Phe Thr Gly Val
      20                      25                      30

Leu Cys Thr Leu Ala Ile Thr Ile Trp Arg Leu Lys Pro Ser Ala Asp
      35                      40                      45

Cys Gly Pro Phe Arg Gly Leu Pro Leu Phe Ile His Ser Ile Tyr Ser
      50                      55                      60

Trp Ile Asp Thr Leu Ser Thr Arg Pro Gly Tyr Leu Trp Val Val Trp
      65                      70                      75                      80

Ile Tyr Arg Asn Leu Ile Gly Ser Val His Phe Phe Phe Ile Leu Thr

```

```
<210> 84
<211> 72
<212> PRT
<213> Homo sapiens
```

```
<210> 85
<211> 42
<212> PRT
<213> Homo sapiens
```

<210>	86
<211>	74

<213> Homo sapiens

Met Ala Cys Leu Gly Ala Pro Ile Ser Ser Leu Leu Cys Trp Leu Leu
1 5 10 15

Leu Ala Leu Ile Ala Leu Glu Ile Val Pro Pro Ala Ala Pro Cys Glu
20 25 30

Val Leu Thr Pro Leu Gln Ser Ser Thr Asn Pro Ile Val Asn Lys Leu
35 40 45

Gly Val Lys Asp Val Asn Glu Leu Val Thr Pro Met Gln Gly Ile Gln
50 55 60

Thr Cys Phe Asn Ile Lys Lys Lys Trp Pro
65 70

<211> 125

<213> Homo sapiens

Met Val Ala Arg Val Phe Tyr Tyr Leu Cys Val Ile Ala Leu Gln Tyr
1 5 10 15

Val Ala Pro Leu Val Met Leu Leu His Thr Thr Leu Leu Leu Lys Thr
20 25 30

Leu Gly Asn His Ser Trp Gly Ile Tyr Pro Glu Ser Ile Ser Thr Leu
35 40 45

Pro Val Asp Asn Ser Leu Leu Ser Asn Ser Val Tyr Ser Glu Leu Pro
50 55 60

Ser Ala Glu Gly Lys Met Lys Val Thr Val Thr Gln Ile Thr Val Ala
65 70 75 80

Leu Ser Ser Leu Lys Asn Ile Phe Thr Pro Leu Leu Phe Arg Gly Leu
85 90 95

Leu Ser Phe Leu Thr Trp Trp Ile Ala Ala Cys Leu Phe Ser Thr Ser
100 105 110

Leu Phe Gly Leu Phe Tyr His Gln Tyr Leu Thr Val Ala
115 120 125

<211> 257

<213> Homo sapiens

Met Leu Leu Thr Leu Ala Gly Gly Ala Leu Phe Phe Pro Gly Leu Phe
1 5 10 15

Ala Leu Cys Thr Trp Ala Leu Arg Arg Ser Gln Pro Gly Trp Ser Arg

```
<210> 89
<211> 121
<212> PRT
<213> Homo sapiens
```

```

<400> 89
Met Thr Cys Phe Pro Thr Arg Leu Gly Leu Ser Cys Pro Lys Pro Ala
  1             5             10             15

Phe Leu Leu Val Pro Leu Ala Leu Ala Gln Cys Val Val Pro Ala Gly
      20             25             30

Phe Leu Gly Lys Cys Cys Leu Leu Gly Arg Leu Met Cys Ala Glu Cys

```



```

<210> 90
<211> 87
<212> PRT
<213> Homo sapiens

<400> 90
Met Pro Thr Arg Gln Leu His Phe Lys Gln Leu Gln Leu Gln Gly Leu
  1              5              10              15
Leu Ile Val Ile Ala Val Thr Asp Asn Cys Leu Ser Phe Ser Val Lys
      20              25              30
Gly Asn Leu Gly Thr Cys Pro Val Arg Ile Leu Val Ala Ser Phe Cys
      35              40              45
Val His Val Cys Val His Val Arg Val Tyr Phe Ile Gln Ile Ser Leu
      50              55              60
Cys Leu Lys Ser Gly Arg Lys Tyr Phe Lys Phe Leu Leu Leu Asn Cys
      65              70              75              80
Ala Asn Val Glu Ile Ser Ser
      85

```

```

<210> 91
<211> 82
<212> PRT
<213> Homo sapiens

<400> 91
Met Gly Gln Met Gln Leu Cys Trp Gly His Trp Glu Thr Phe Leu Pro
  1              5              10              15
Leu Leu Arg Leu Leu Val Ala Ile Val Leu Cys Lys Val Ser Ile Met
      20              25              30
Lys Glu Val Ile Ser Phe Gly Arg Leu Leu Glu Thr Met Leu Ile Pro
      35              40              45
Trp Pro Cys Val Thr Leu Met Val Met Glu Arg Lys Ser Phe Leu Leu
      50              55              60

```

Asp Leu Arg Ile Leu Ile Ser Glu Phe Leu Arg Lys Met Arg Leu Trp
 65 70 75 80

Gln Lys

<210> 92
 <211> 508
 <212> PRT
 <213> Homo sapiens

<400> 92
 Met Ala Gly Arg Thr Thr Ala Ala Pro Arg Gly Pro Tyr Gly Pro Trp
 1 5 10 15
 Leu Cys Leu Leu Val Ala Leu Ala Leu Asp Val Val Arg Val Asp Cys
 20 25 30
 Gly Gln Ala Pro Leu Asp Pro Val Tyr Leu Pro Ala Ala Leu Glu Leu
 35 40 45
 Leu Asp Ala Pro Glu His Phe Arg Val Gln Gln Val Gly His Tyr Pro
 50 55 60
 Pro Ala Asn Ser Ser Leu Ser Ser Arg Ser Glu Thr Phe Leu Leu Leu
 65 70 75 80
 Gln Pro Trp Pro Arg Ala Gln Pro Leu Leu Arg Ala Ser Tyr Pro Pro
 85 90 95
 Phe Ala Thr Gln Gln Val Val Pro Pro Arg Val Thr Glu Pro His Gln
 100 105 110
 Arg Pro Val Pro Trp Asp Val Arg Ala Val Ser Val Glu Ala Ala Val
 115 120 125
 Thr Pro Ala Glu Pro Tyr Ala Arg Val Leu Phe His Leu Lys Gly Gln
 130 135 140
 Asp Trp Pro Pro Gly Ser Gly Ser Leu Pro Cys Ala Arg Leu His Ala
 145 150 155 160
 Thr His Pro Ala Gly Thr Ala His Gln Ala Cys Arg Phe Gln Pro Ser
 165 170 175
 Leu Gly Ala Cys Val Val Glu Leu Glu Leu Pro Ser His Trp Phe Ser
 180 185 190
 Gln Ala Ser Thr Thr Arg Ala Glu Leu Ala Tyr Thr Leu Glu Pro Ala
 195 200 205
 Ala Glu Gly Pro Gly Gly Cys Gly Ser Gly Glu Glu Asn Asp Pro Gly
 210 215 220
 Glu Gln Ala Leu Pro Val Gly Gly Val Glu Leu Arg Pro Ala Asp Pro
 225 230 235 240
 Pro Gln Tyr Gln Glu Val Pro Leu Asp Glu Ala Val Thr Leu Arg Val
 245 250 255

098596607001

```

<210> 93
<211> 47
<212> PRT
<213> Homo sapiens

<400> 93
Met Phe Gly Ser Arg Gly Leu Leu Cys Met Cys Val Phe Phe Phe Asn
  1                               10                      15

Ile Leu Ala Ser Gln Cys Lys Val Ile Ser Ser Gly Gly Met Leu Cys
      20                25                30

```

```
<210> 94
<211> 119
<212> PRT
<213> Homo sapiens
```

Ser Cys Leu Val Gly Ala Gln
115

```
<210> 95
<211> 289
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids
```

Pro Cys Ser His Val Gly His Val Phe Pro Lys Gln Ala Pro Tyr Ser
65 70 75 80

Thr Glu Gln Lys Thr Pro Ser Leu Ser Trp Ser Pro Leu Gly Met Gly
35 40 45

<210> 97
 <211> 117
 <212> PRT
 <213> Homo sapiens

<400> 97
 Met Asp Thr Phe Cys Val Leu Ile Leu Cys Val Tyr Thr Cys Ala Ala
 1 5 10 15
 His Met Ser Ile His Arg Cys Val Cys Ile Leu Cys Val Tyr Phe Val
 20 25 30
 His Leu Trp Met Cys Val Cys Thr Ile Glu Ser Ile Ser Arg Arg Glu
 35 40 45
 Arg Glu Cys Val Cys Val Cys Val His Val Trp Met Cys Gly Tyr Ser
 50 55 60
 Met Ser Val Phe Arg Val Gln Val Tyr Gly Cys Ser Cys Ala Val Cys
 65 70 75 80
 Val Cys Ala His Thr His Ser Ala Ser Leu Cys Val Cys Met Cys Ile
 85 90 95
 Pro Cys Val Pro Met Tyr Arg Gly Cys Val Tyr Pro Ala Cys Leu Cys
 100 105 110
 Met Gly Glu His Met
 115

<210> 98
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 98
 Met Ser Thr Val Thr Trp Leu Leu Lys Leu Phe Thr Gln Phe Met Phe
 1 5 10 15
 Pro Pro Thr Val Ser Asn Ser His Thr Cys Ala Arg Tyr Tyr Val Phe
 20 25 30
 Asn Phe Cys Leu Ile Ile Ser Phe Asn Phe Asn Phe His Tyr His Trp
 35 40 45

<210> 99
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 99
 Met Gln Ala Gln Phe Cys Cys Ser Ala Val Cys Ser Ala Phe Leu His
 1 5 10 15
 Ile Leu Ala Ser Pro Ser Gly Ala Lys Met Ala Ala Ala Phe Gln Ala

005529-0001

20 25 30
 Ser His Pro Asp Ser Asp Pro Glu Lys Leu Pro Ile Pro Thr Trp Val
 35 40 45
 Ser Leu Cys Arg Asn Glu Lys Pro His Pro Ala Ala Glu Thr Ser Pro
 50 55 60
 Ser Ser Val Phe Ser Gly Leu Ile His Gln Arg Arg Pro Pro Leu Asn
 65 70 75 80
 Gln Ser Leu Ala Lys Arg Met Gly Pro Pro Gly Arg Leu Asp Gln Thr
 85 90 95
 Gly Pro Ala Leu Trp Gly Trp Gly Glu Ala Gln Met Lys Ala Ala Gly
 100 105 110
 Gln Asp Gly Leu Leu Asp Leu Cys Tyr Gln Gln
 115 120

<210> 100
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 100
 Met Ile Thr Lys Pro Ser Lys Arg Gly Ile Ile Tyr Cys Leu Pro Leu
 1 5 10 15
 Leu Phe Gln Leu Ser His Leu Ser Leu Ala Asn Leu Phe Leu Thr Ser
 20 25 30
 Leu Thr Ser Pro His Leu Thr Glu Phe Phe His Leu Leu Cys Gln Thr
 35 40 45
 Thr Gly Tyr Ser Asp Asp Asn Leu Leu Ser Leu Pro Val Ser Ser Gln
 50 55 60
 Thr Lys Ala Cys Phe Thr Lys Trp Gly Val Ser Ala Ala Ser Ser Ser
 65 70 75 80
 Pro Leu Thr His Ser Cys Ser Ala Arg Gly Ser Gly Arg Val Ser Glu
 85 90 95
 His Arg Cys Gly Met Gln Ser Pro Arg Pro His Ala His Pro Ser Phe
 100 105 110
 Ser Cys Thr Ser Ala Asn Ser Ser Trp Leu Thr Cys Ala Ser Trp Leu
 115 120 125
 Glu Ser Leu
 130

<210> 101
 <211> 333
 <212> PRT
 <213> Homo sapiens

<400> 101

F02070-86256660

Met	Ser	Pro	Trp	Ser	Trp	Phe	Leu	Gln	Thr	Leu	Cys	Leu	Leu	Pro	
1				5				10					15		
Thr	Gly	Ala	Ala	Ser	Arg	Arg	Gly	Ala	Pro	Gly	Thr	Ala	Asn	Cys	Glu
		20					25						30		
Leu	Lys	Pro	Gln	Gln	Ser	Glu	Leu	Asn	Ser	Phe	Leu	Trp	Thr	Ile	Lys
		35					40					45			
Arg	Asp	Pro	Pro	Ser	Tyr	Phe	Phe	Gly	Thr	Ile	His	Val	Pro	Tyr	Thr
	50					55					60				
Arg	Val	Trp	Asp	Phe	Ile	Pro	Asp	Asn	Ser	Lys	Glu	Ala	Phe	Leu	Gln
65					70					75					80
Ser	Ser	Ile	Val	Tyr	Phe	Glu	Leu	Asp	Leu	Thr	Asp	Pro	Tyr	Thr	Ile
				85					90					95	
Ser	Ala	Leu	Thr	Ser	Cys	Gln	Met	Leu	Pro	Gln	Gly	Glu	Asn	Leu	Gln
			100					105					110		
Asp	Val	Leu	Pro	Arg	Asp	Ile	Tyr	Cys	Arg	Leu	Lys	Arg	His	Leu	Glu
		115					120					125			
Tyr	Val	Lys	Leu	Met	Met	Pro	Leu	Trp	Met	Thr	Pro	Asp	Gln	Arg	Gly
	130					135						140			
Lys	Gly	Leu	Tyr	Ala	Asp	Tyr	Leu	Phe	Asn	Ala	Ile	Ala	Gly	Asn	Trp
145					150					155					160
Glu	Arg	Lys	Arg	Pro	Val	Trp	Val	Met	Leu	Met	Val	Asn	Ser	Leu	Thr
				165					170					175	
Glu	Val	Asp	Ile	Lys	Ser	Arg	Gly	Val	Pro	Val	Leu	Asp	Leu	Phe	Leu
			180					185					190		
Ala	Gln	Glu	Ala	Glu	Arg	Leu	Arg	Lys	Gln	Thr	Gly	Ala	Val	Glu	Lys
		195					200					205			
Val	Glu	Glu	Gln	Cys	His	Pro	Leu	Asn	Gly	Leu	Asn	Phe	Ser	Gln	Val
	210					215						220			
Ile	Phe	Ala	Leu	Asn	Gln	Thr	Leu	Leu	Gln	Gln	Glu	Ser	Leu	Arg	Ala
225					230					235					240
Gly	Ser	Leu	Gln	Ile	Pro	Tyr	Thr	Thr	Glu	Asp	Leu	Ile	Lys	His	Tyr
				245					250					255	
Asn	Cys	Gly	Asp	Leu	Ser	Ser	Val	Ile	Leu	Ser	His	Asp	Ser	Ser	Gln
			260					265					270		
Val	Pro	Asn	Phe	Ile	Asn	Ala	Thr	Leu	Pro	Pro	Gln	Glu	Arg	Ile	Thr
		275					280					285			
Ala	Gln	Glu	Ile	Asp	Ser	Tyr	Leu	Arg	Arg	Glu	Leu	Ile	Tyr	Lys	Arg
		290				295					300				
Asn	Glu	Arg	Ile	Gly	Lys	Arg	Val	Lys	Ala	Leu	Leu	Glu	Glu	Phe	Pro
305					310					315					320
Asp	Lys	Gly	Phe	Phe	Phe	Ala	Phe	Gly	Ala	Ala	Ser	Gln			

325

330

<210> 102
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 102
 Met Thr Trp Thr Lys Cys Pro Leu Pro Leu Gly Pro Ala Phe Phe Thr
 1 5 10 15
 Gln Cys Cys Leu Ile Gly Leu Leu Val Pro Leu Leu Gly Trp Gly Asn
 20 25 30
 Gln Asn Thr Gln Trp Tyr Pro Thr Ser Lys Met Pro Asp Leu Lys Asp
 35 40 45
 Ser Lys Thr Thr Asp Leu Cys Gln His Val Lys His Met Val
 50 55 60

<210> 103
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 103
 Met Ser Glu Thr Phe Leu Glu Ser Val Asn Leu Leu Leu Val Ile Pro
 1 5 10 15
 Val Ala Thr Thr Leu Ile Ser Trp Met Ala Pro Arg Lys Lys Glu Ser
 20 25 30
 Phe Gln Glu Leu Ser Arg Gln Val Val Pro Cys Gln Met Met Leu Leu
 35 40 45
 Ser Thr Val Leu Pro Cys Leu Thr His Pro Arg Ile Lys Lys Gly Val
 50 55 60
 Leu Arg Phe Pro Gly Val Thr Leu Trp Leu Tyr Leu Arg Pro Phe Gln
 65 70 75 80
 Phe Tyr Gln Phe Ile Pro Met Asp His Arg Ser Leu Asp Ser Gln Phe
 85 90 95
 Arg Met Arg

<210> 104
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 104
 Met Gly Ala Asn Phe Thr Val Phe Leu Gln Tyr Leu Val Phe Pro Ile
 1 5 10 15
 Phe Gly Phe Leu Leu Ile Ile Ser His Pro Ser Gln Pro Leu Phe Ser
 20 25 30

005558.07001

<220>

Leu

<210> 110
 <211> 215
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (102)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 110
 Met Gln Ile Leu Gly Val Val Leu Thr Leu Leu Gly Trp Val Asn Gly
 1 5 10 15
 Leu Val Ser Cys Ala Leu Pro Met Trp Lys Val Thr Ala Phe Ile Gly
 20 25 30
 Asn Ser Ile Val Val Ala Gln Val Val Trp Glu Gly Leu Trp Met Ser
 35 40 45
 Cys Val Val Gln Ser Thr Gly Gln Met Gln Cys Lys Val Tyr Asp Ser
 50 55 60
 Leu Leu Ala Leu Pro Gln Asp Leu Gln Ala Ala Arg Ala Leu Cys Val
 65 70 75 80
 Ile Ala Leu Leu Val Ala Leu Phe Gly Leu Leu Val Tyr Leu Ala Gly
 85 90 95
 Ala Lys Cys Thr Thr Xaa Phe Tyr Xaa Lys Asp Ser Lys Ala Arg Leu
 100 105 110
 Val Leu Thr Ser Gly Ile Val Phe Val Ile Ser Gly Val Leu Thr Leu
 115 120 125
 Ile Pro Val Cys Trp Thr Ala His Ala Ile Ile Arg Asp Phe Tyr Asn
 130 135 140
 Pro Leu Val Ala Glu Ala Gln Lys Arg Glu Leu Gly Ala Ser Leu Tyr
 145 150 155 160
 Leu Gly Trp Ala Ala Ser Gly Leu Leu Leu Leu Gly Gly Gly Leu Leu
 165 170 175
 Cys Cys Thr Cys Pro Ser Gly Gly Ser Gln Gly Pro Ser His Tyr Met
 180 185 190
 Ala Arg Tyr Ser Thr Ser Ala Pro Ala Ile Ser Arg Gly Pro Ser Glu
 195 200 205
 Tyr Pro Thr Lys Asn Tyr Val
 210 215

<210> 111
 <211> 276

09895598-07007

<213> Homo sapiens

Met Glu Ser Arg Met Trp Pro Ala Leu Leu Leu Ser His Leu Leu Pro
1 5 10 15

Leu Trp Pro Leu Leu Leu Leu Pro Leu Pro Pro Pro Ala Gln Gly Ser
20 25 30

Ser Ser Ser Pro Arg Thr Pro Pro Gly Pro Ala Arg Pro Pro Cys Ala
35 40 45

Arg Gly Gly Pro Ser Ala Pro Arg His Val Cys Val Trp Glu Arg Ala
50 55 60

Pro	Pro	Pro	Ser	Arg	Ser	Pro	Arg	Val	Pro	Arg	Ser	Arg	Arg	Gln	Val
65					70					75					80

Leu Pro Gly Thr Ala Pro Pro Ala Thr Pro Ser Gly Phe Glu Glu Gly
85 90 95

Pro Pro Ser Ser Gln Tyr Pro Trp Ala Ile Val Trp Gly Pro Thr Val
100 105 110

Ser Arg Glu Asp Gly Gly Asp Pro Asn Ser Ala Asn Pro Gly Phe Leu
115 120 125

Asp Tyr Gly Phe Ala Ala Pro His Gly Leu Ala Thr Pro His Pro Asn
130 135 140

Ser Asp Ser Met Arg Gly Asp Gly Asp Gly Leu Ile Leu Gly Glu Ala
145 150 155 160

Pro Ala Thr Leu Arg Ser Phe Leu Phe Gly Gly Arg Gly Glu Gly Val
165 170 175

Asp Pro Gln Leu Tyr Val Thr Ile Thr Ile Ser Ile Ile Ile Val Leu
180 185 190

Val Ala Thr Gly Ile Ile Phe Lys Phe Cys Trp Asp Arg Ser Gln Lys
195 200 205

Arg Arg Arg Pro Ser Gly Gln Gln Gly Ala Leu Arg Gln Glu Glu Ser
210 215 220

Gln Gln Pro Leu Thr Asp Leu Ser Pro Ala Gly Val Thr Val Leu Gly
225 230 235 240

Ala Phe Gly Asp Ser Pro Thr Pro Thr Pro Asp His Asp Glu Pro Arg
245 250 255

Gly Gly Pro Arg Pro Gly Met Pro His Pro Lys Gly Ala Pro Ala Phe
260 265 270

Gln Leu Asn Arg
275

<210> 112

<211> 86

<213> Homo sapiens

Met Arg Leu Val Thr Ala Ala Leu Leu Leu Gly Leu Met Met Val Val

1 5 10 15

20 25 30

35 40 45

50 55 60

65 70 75 80

85

<213> Homo sapiens

Ala Ala Pro Asp Gly Gly Thr Met Ser Ser Ser Gly Gly Ala Pro Gly

1 5 10 15

20 25

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Arg Arg Arg Arg Asn Gln Asp Arg Pro Gln Leu Xaa Lys Lys Phe Cys

1 5 10 15

20 25 30

35 40 45

50 55 60

65 70 75 80

Leu Pro Phe Asp Val Lys Arg Lys Asp Phe Lys Glu Gln Val Ile His
35 40 45


```

<400> 117
His Phe Val Ala Val Ile Leu Met Thr Phe Ser Tyr Ser Ala Asn Leu
  1             5             10             15
Leu Arg Ile Gly Ser Leu Val Leu Leu Leu His Asp Ser Ser Asp Tyr
          20             25             30
Leu Leu Glu Ala Cys Lys Met Val Asn Tyr Met Gln Tyr Gln Gln
  35             40             45

```

```

<210> 119
<211> 43
<212> PRT
<213> Homo sapiens

<400> 119
Lys Thr Tyr Val Leu Pro Ser Pro Gly Leu Ser Ile Arg Pro Pro Gly
 1             5             10             15
Arg Glu Val Pro Gly Ser His Pro Phe Pro Ala Pro Ala Leu Glu Thr
          20             25             30
Ala Ala Pro Arg Leu Leu Arg Asp Ser Asp Ser
      35             40

```

```
<220>
<221> SITE
<222> (280)
```

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 120

Lys	Thr	Tyr	Val	Leu	Pro	Ser	Pro	Gly	Leu	Ser	Ile	Arg	Pro	Pro	Gly
1				5					10					15	
Arg	Glu	Val	Pro	Gly	Ser	His	Pro	Phe	Pro	Ala	Pro	Ala	Leu	Glu	Thr
			20					25					30		
Ala	Ala	Pro	Arg	Leu	Leu	Arg	Asp	Ser	Asp	Ser	Met	Lys	Ala	Pro	Gly
		35					40					45			
Arg	Leu	Val	Leu	Ile	Ile	Leu	Cys	Ser	Val	Val	Phe	Ser	Ala	Val	Tyr
	50					55					60				
Ile	Leu	Leu	Cys	Cys	Trp	Ala	Gly	Leu	Pro	Leu	Cys	Leu	Ala	Thr	Cys
65					70				75					80	
Leu	Asp	His	His	Phe	Pro	Thr	Gly	Ser	Arg	Pro	Thr	Val	Pro	Gly	Pro
				85					90					95	
Leu	His	Phe	Ser	Gly	Tyr	Ser	Ser	Val	Pro	Asp	Gly	Lys	Pro	Leu	Val
		100						105					110		
Arg	Glu	Pro	Cys	Arg	Ser	Cys	Ala	Val	Val	Ser	Ser	Ser	Gly	Gln	Met
		115					120						125		
Leu	Gly	Ser	Gly	Leu	Gly	Ala	Glu	Ile	Asp	Ser	Ala	Glu	Cys	Val	Phe
	130					135					140				
Arg	Met	Asn	Gln	Ala	Pro	Thr	Val	Gly	Phe	Glu	Ala	Asp	Val	Gly	Gln
145					150					155					160
Arg	Ser	Thr	Leu	Arg	Val	Val	Ser	His	Thr	Ser	Val	Pro	Leu	Leu	Leu
			165						170					175	
Arg	Asn	Tyr	Ser	His	Tyr	Phe	Gln	Lys	Ala	Arg	Asp	Thr	Leu	Tyr	Met
		180						185					190		
Val	Trp	Gly	Gln	Gly	Arg	His	Met	Asp	Arg	Val	Leu	Gly	Gly	Arg	Thr
		195					200					205			
Tyr	Arg	Thr	Leu	Leu	Gln	Leu	Thr	Arg	Met	Tyr	Pro	Gly	Leu	Gln	Val
	210					215					220				
Tyr	Thr	Phe	Thr	Glu	Arg	Met	Met	Ala	Tyr	Cys	Asp	Gln	Ile	Phe	Gln
225					230					235					240
Asp	Glu	Thr	Gly	Lys	Asn	Arg	Arg	Gln	Ser	Gly	Ser	Phe	Leu	Ser	Thr
			245						250				255		
Gly	Trp	Phe	Thr	Met	Ile	Leu	Ala	Leu	Glu	Leu	Cys	Glu	Glu	Ile	Val
		260					265					270			
Val	Tyr	Gly	Met	Val	Ser	Asp	Xaa	Tyr	Cys	Arg	Glu	Lys	Ser	His	Pro
		275					280					285			
Ser	Val	Pro	Tyr	His	Tyr	Phe	Glu	Lys	Gly	Arg	Leu	Asp	Glu	Cys	Gln
	290					295					300				
Met	Tyr	Leu	Ala	His	Glu	Gln	Ala	Pro	Arg	Ser	Ala	His	Arg	Phe	Ile

00665698.070201

305 310 315 320

Thr Glu Lys Ala Val Phe Ser Arg Trp Ala Lys Lys Arg Pro Ile Val
 325 330 335

Phe Ala His Pro Ser Trp Arg Thr Glu
 340 345

<210> 121
 <211> 966
 <212> DNA
 <213> Homo sapiens

<400> 121
 ACATGGTGTG GGGCCAGGGC AGGCACATGG ACCGGGTGCT CGGCGGCCGC ACCTACCGCA 60
 CGCTGCTGCA GCTCACCAGG ATGTACCCCG GCCTGCAGGT GTACACCTTC ACGGAGCGCA 120
 TGATGGCCTA CTGCGACCAG ATCTTCCAGG ACGAGACGGG CAAGAACCGG AGGCAGTCGG 180
 GCTCCTTCCT CAGCACCGGC TGGTTCACCA TGATCCTCGC GCTGGAGCTG TGTGAGGAGA 240
 TCGTGGTCTA TGGGATGGTC AGCGACACTA CTGCAGGGAG AAGAGCCACC CCTCAGTGCC 300
 TTACCACTAC TTTGAGAAGG GCCGGCTAGA TGAGTGTCTAG ATGTACCTGG CACACGAGCA 360
 GCGCCCCCGA AGCGCCCACC GCTTCATCAC TGAGAAGGCG GTCTTCTCCC GCTGGGCCAA 420
 GAAGAGGCCC ATCGTGTTCG CCCATCCGTC CTGGAGGACT GAGTAGCTTC CGTCGTCCTG 480
 CCAGCCGCCA TGCCGTTGCG AGGCCTCCGG GATGTCCCAT CCCAAGCCAT CACACTCCAC 540
 AAAAACATTT AATTTATGGT TCCTGCCCTC TGCCACGTGC TGGGTGGACC TAAGGTTCTT 600
 CCCACCCATT CTGGCGACAC TTGGAGCCAT CTCAGGCCCC TCCACTCCCT GAGTAATTCA 660
 TGGCATTGCG GGGCTCACCC CACCTCCAGG TCTGTCAAGT GGCCTTTGTC CCTGGGGCTG 720
 ATGGCCCCCA ACTCACCAGC ATCATGACCT TGTGCCAGTC CTGGTCCTCC CTCCCCAGCC 780
 GCCCCTACCA CCTTTTGGTG CCACACTTCT CAGGCTGGCC GCCCTGGTTG GGGCAGCCGA 840
 GAGCCTGGGG TTCATTGGTG AAGGGGCCTT GGAGTTGTGA CTGCCGGGGC CGTATCAGGA 900
 ACGTACGGGT AAACGTGTGT TTTCTGGAAA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA 960
 AAAAAA 966

<210> 122
 <211> 185
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

095559-07001

```

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (160)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (161)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 122
Thr Arg Asn Lys Ile Trp Ser Ser Thr Arg Gly Gly Gly Arg Ser Arg
  1             5             10             15

Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Arg Ser His Leu
             20             25             30

Ala Ala Val His Met Ala Ala Trp Val Phe Pro Leu Leu Ser Val Ile
  35             40             45

His Thr Xaa Leu Pro Gln Ala Ser Pro Glu Ile Trp Val Thr Gln Ser
  50             55             60

Glu Gly Gly Asp Gln Gly Val Ala Cys Glu Xaa Val Gly Gly Val Leu
  65             70             75             80

Ser Thr Leu Asp Arg Ile Glu Leu Cys Phe Leu Ser Asp Arg Ala Ser
             85             90             95

Ser Gly Cys Xaa Asp Lys Xaa Pro Gln Thr Gly Val Leu Phe Leu Gly
             100            105            110

Ala Gly Ile Cys His Glu Gly Val Gly Arg Ala Gly Ser Ser Arg Ala
             115            120            125

Leu Ser Pro Gly Pro Ala Xaa Ala Val Phe Pro Ser Phe Pro Cys Ala
             130            135            140

Phe Pro Gly Pro Ser Cys Val Cys Leu Cys Pro Arg Leu Ser Trp Xaa
             145            150            155            160

```

Xaa Tyr Arg Ser Gln Gly Pro Trp Ser Tyr Trp Ile Arg Ala Thr Leu
 165 170 175

Met Ala Ser Cys His Cys Ser Tyr Leu
 180 185

<210> 123
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 123
 Phe Leu Gly Val Leu Val Ser Ile Ile Met Leu Ser Pro Gly Val Glu
 1 5 10 15

Ser Gln Leu Tyr Lys Leu Pro Trp Val Cys Glu Glu Gly Ala Gly Ile
 20 25 30

Pro Thr Val Leu Gln Gly His Ile Asp Cys Gly Ser Leu Leu Gly Tyr
 35 40 45

Arg Ala Val Tyr Arg
 50

<210> 124
 <211> 58
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 124
 Pro Gly Ala Gly Arg Pro Lys Pro Gly Ala Ala Ala Met Gly Ala Cys
 1 5 10 15

Leu Gly Ala Cys Ser Leu Leu Ser Cys Ala Ser Cys Leu Cys Gly Ser
 20 25 30

Ala Pro Cys Ile Leu Cys Ser Cys Cys Pro Ala Ser Arg Xaa Ser Thr
 35 40 45

Val Ser Arg Leu Ile Phe Thr Phe Phe Leu
 50 55

<210> 125
 <211> 468
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

0005298.070201

Tyr Thr Met Phe Val Thr Trp Ser Ala Leu Ser Ser Ile Pro Glu Gln
290 295 300

Lys Cys Asn Pro His Leu Pro Thr Gln Leu Gly Asn Glu Thr Val Val
305 310 315 320

Ala Gly Pro Glu Gly Tyr Glu Thr Gln Trp Trp Asp Ala Pro Ser Ile
325 330 335

Val Gly Leu Ile Ile Phe Leu Leu Cys Thr Leu Phe Ile Ser Leu Arg
340 345 350

Ser Ser Asp His Arg Gln Val Asn Ser Leu Met Gln Thr Glu Glu Cys
355 360 365

Pro Pro Met Leu Asp Ala Thr Gln Gln Gln Gln Gln Val Ala Ala
370 375 380

Cys Glu Gly Arg Ala Phe Asp Asn Glu Gln Asp Gly Val Thr Tyr Ser
385 390 395 400

Tyr Ser Phe Phe His Phe Cys Leu Val Leu Ala Ser Leu His Val Met
405 410 415

Met Thr Leu Thr Asn Trp Tyr Lys Pro Gly Glu Thr Arg Lys Met Ile
420 425 430

Ser Thr Trp Thr Ala Val Trp Val Lys Ile Cys Ala Ser Trp Ala Gly
435 440 445

Leu Leu Leu Tyr Leu Trp Thr Leu Val Ala Pro Leu Leu Leu Arg Asn
450 455 460

Arg Asp Phe Ser
465

<210> 126
<211> 44
<212> PRT
<213> Homo sapiens

<400> 126
Arg Cys Ser Ser Ile Phe Thr Pro Trp Lys Leu Thr Thr Leu Ser Ser
1 5 10 15

Phe Leu His His His Pro Gly Ala Gln Arg Ser Lys Leu Leu Ser Ile
20 25 30

Phe Ser Pro Ser Pro Arg Thr Leu Thr Leu Tyr Arg
35 40

<210> 127
<211> 155
<212> PRT
<213> Homo sapiens

<400> 127
Arg Cys Ser Ser Ile Phe Thr Pro Trp Lys Leu Thr Thr Leu Ser Ser
1 5 10 15

Phe Leu His His His Pro Gly Ala Gln Arg Ser Lys Leu Leu Ser Ile

095533-0001

20 25 30
 Phe Ser Pro Ser Pro Arg Thr Leu Thr Leu Tyr Arg Met Gly Pro Ser
 35 40 45
 Ser Cys Leu Leu Leu Ile Leu Ile Pro Leu Leu Gln Leu Ile Asn Leu
 50 55 60
 Gly Ser Thr Gln Cys Ser Leu Asp Ser Val Met Asp Lys Lys Ile Lys
 65 70 75 80
 Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro Ile Ser Lys Lys
 85 90 95
 Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro Ser Ser Cys Pro
 100 105 110
 Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr Gly Cys Gly Ser
 115 120 125
 Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln Cys Ser Val Val
 130 135 140
 Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr
 145 150 155

<210> 128
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 128
 Ser Val Ser Thr Thr Arg Ser Phe Ser Val Asp Ser Ser Ala Lys Thr
 1 5 10 15
 Ala Ala Met Pro Val Thr Val Thr Arg Thr Thr Ile Thr Thr Thr Thr
 20 25 30
 Thr Ser Ser Ser Gly Leu Gly Ser Pro
 35 40

<210> 129
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 129
 Ser Thr Cys Val Ala Phe Ser Leu Val Ala Ser Val Gly Ala Trp Thr
 1 5 10 15

Gly

<210> 130
 <211> 8
 <212> PRT
 <213> Homo sapiens

0065596.07001

<400> 130
Met Phe Thr Trp Cys Phe Cys Phe
1 5

<210> 131
<211> 6
<212> PRT
<213> Homo sapiens

<400> 131
Ile Leu Ile Val Glu Leu
1 5

<210> 132
<211> 22
<212> PRT
<213> Homo sapiens

<400> 132
Phe Pro Leu Ser Trp Arg Asn Phe Pro Ile Thr Phe Ala Cys Tyr Ala
1 5 10 15

Ala Leu Phe Cys Leu Ser
20

<210> 133
<211> 12
<212> PRT
<213> Homo sapiens

<400> 133
Ser Ile Ile Tyr Pro Thr Thr Tyr Val Gln Phe Leu
1 5 10

<210> 134
<211> 8
<212> PRT
<213> Homo sapiens

<400> 134
Arg Asp His Ala Ile Ala Ala Thr
1 5

<210> 135
<211> 29
<212> PRT
<213> Homo sapiens

<400> 135
Ala Tyr Ala Thr Glu Val Ala Trp Thr Arg Ala Arg Pro Gly Glu Ile
1 5 10 15

Thr Gly Tyr Met Ala Thr Val Pro Gly Leu Leu Lys Val
20 25

005555-07001

Val Glu Ile Glu Phe Cys Val Trp Asp Gln Phe Leu Gly Glu Ile Asn

<210> 140

```

<400> 140
Gly Leu Asp Thr Gly Glu Met Ser Asn Ser Thr Ser Ser Leu Lys Arg
  1             5             10             15

Gln Arg Leu Gly Ser Glu Arg Ala Ala Ser His Val Ala Gln Ala Asn
      20             25             30

Leu Lys Leu Leu Asp Val Ser Lys Ile Phe Pro Ile Ala Glu Ile Ala
  35             40             45

Glu Glu Ser Ser Pro Glu Val Val Pro Val Glu Leu Leu Cys Met Pro
  50             55             60

```

```
<210> 141
<211> 61
<212> PRT
<213> Homo sapiens

<400> 141
Ser Pro Ala Ser Gln Gly Asp Leu His Thr Lys Pro Leu Gly Thr Asp
   1                               10                          15
Asp Asp Phe Trp Gly Pro Thr Gly Pro Val Ala Thr Glu Val Val Asp
      20                      25                        30
Lys Glu Lys Asn Leu Tyr Arg Val His Phe Pro Val Ala Gly Ser Tyr
    35                            40                         45
Arg Trp Pro Asn Thr Gly Leu Cys Phe Val Met Arg Glu
   50                      55                          60
```

```
<210> 142
<211> 63
<212> PRT
<213> Homo sapiens
```

```

<400> 142
Ala Val Thr Val Glu Ile Glu Phe Cys Val Trp Asp Gln Phe Leu Gly
  1                               10                      15

Glu Ile Asn Pro Gln His Ser Trp Met Val Ala Gly Pro Leu Leu Asp
      20                               25                      30

Ile Lys Ala Glu Pro Gly Ala Val Glu Ala Val His Leu Pro His Phe
      35                               40                      45

Val Ala Leu Gln Gly Gly His Val Asp Thr Ser Leu Phe Gln Val
      50                               55                      60

```

<210> 143
<211> 65

<213> Homo sapiens

Ala His Phe Lys Glu Glu Gly Met Leu Leu Glu Lys Pro Ala Arg Val
1 5 10 15

Glu Leu His His Ile Val Leu Glu Asn Pro Ser Phe Ser Pro Leu Gly
20 25 30

Val Leu Leu Lys Met Ile His Asn Ala Leu Arg Phe Ile Pro Val Thr
35 40 45

Ser Val Val Leu Leu Tyr His Arg Val His Pro Glu Glu Val Thr Phe
50 55 60

His
65

<211> 65

<213> Homo sapiens

Leu Tyr Leu Ile Pro Ser Asp Cys Ser Ile Arg Lys Glu Leu Glu Leu
1 5 10 15

Cys Tyr Arg Ser Pro Gly Glu Asp Gln Leu Phe Ser Glu Phe Tyr Val
20 25 30

Gly His Leu Gly Ser Gly Ile Arg Leu Gln Val Lys Asp Lys Lys Asp
35 40 45

Glu Thr Leu Val Trp Glu Ala Leu Val Lys Pro Gly Asp Leu Met Pro
50 55 60

Ala
65

<211> 65

<213> Homo sapiens

Thr Thr Leu Ile Pro Pro Ala Arg Ile Ser Val Pro Ser Pro Leu Asp
1 5 10 15

Ala Pro Gln Leu Leu His Phe Val Asp Gln Tyr Arg Glu Gln Leu Ile
20 25 30

Ala Arg Val Thr Ser Val Glu Val Val Leu Asp Lys Leu His Gly Gln
35 40 45

Val Leu Ser Gln Glu Gln Tyr Glu Arg Val Leu Ala Glu Asn Thr Arg
50 55 60

Pro

65

<210> 146
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 146
 Ser Gln Met Arg Lys Leu Phe Ser Leu Ser Gln Ser Trp Asp Arg Lys
 1 5 10 15
 Cys Lys Asp Gly Leu Tyr Gln Ala Leu Lys Glu Thr His Pro His Ser
 20 25 30
 Leu Trp Asn Ser Gly Arg Arg Ala Ala Lys Arg Asp Ser Cys His Ser
 35 40 45
 Ala Ala Glu Val Ser Thr Leu Ala Leu Asp Pro
 50 55

<210> 147
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 147
 Ser Glu Gln Leu Pro Thr Ile Ala Gln Ile His Pro Ala Glu Ala Met
 1 5 10 15
 Phe Leu

<210> 148
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 148
 Tyr Ser Ser Pro Ala Cys Gln His Asp Gln Ala Pro Leu Leu Pro Leu
 1 5 10 15
 Asp Val Thr Asp
 20

<210> 149
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 149
 Ala Pro His Arg Ser Gly Ala Ala His Ser Ser Ala Arg Cys Gly Leu
 1 5 10 15
 Ser Ala Ala Glu Arg Pro Arg Gln Phe Arg Thr Lys Arg Cys Gly Gln
 20 25 30
 Ala Thr Gly Pro Ala Gly Asn Ile Met Ala Glu Lys Val Asn Asn Phe

0585298.00201

```

<210> 150
<211> 20
<212> PRT
<213> Homo sapiens

<400> 150
Gly Ala Ala His Ser Ser Ala Arg Cys Gly Leu Ser Ala Ala Glu Arg
 1             5             10             15
Pro Arg Gln Phe
          20

```

```

<210> 151
<211> 23
<212> PRT
<213> Homo sapiens

<400> 151
Ala Thr Gly Pro Ala Gly Asn Ile Met Ala Glu Lys Val Asn Asn Phe
  1             5             10             15
Pro Pro Leu Pro Lys Phe Ile
          20

```

```

<210> 152
<211> 13
<212> PRT
<213> Homo sapiens

<400> 152
Ile Pro Pro Gln His Val Ser Met Thr Lys Arg Leu Tyr
  1                      5                      10

```

```

<210> 153
<211> 184
<212> PRT
<213> Homo sapiens

<400> 153
His His Gly Arg Glu Ser Glu Gln Leu Pro Thr Ile Ala Gln Ile His
 1             5             10             15
Pro Ala Glu Ala Met Phe Leu Pro Arg Leu Arg Gly Arg Tyr Ser Ser
          20             25             30
Pro Ala Cys Gln His Asp Gln Ala Pro Leu Leu Pro Leu Asp Val Thr

```

35 40 45
 Asp Ser Ser Phe Ser Phe Met Ala Phe Phe Phe Thr Phe Met Ala Gln
 50 55 60
 Leu Val Ile Ser Ile Ile Gln Ala Val Gly Ile Pro Gly Trp Gly Val
 65 70 75 80
 Cys Gly Trp Ile Ala Thr Ile Ser Phe Phe Gly Thr Asn Ile Gly Ser
 85 90 95
 Ala Val Val Met Leu Ile Pro Thr Val Met Phe Thr Val Met Ala Val
 100 105 110
 Phe Ser Phe Ile Ala Leu Ser Met Val His Lys Phe Tyr Arg Gly Ser
 115 120 125
 Gly Gly Ser Phe Ser Lys Ala Gln Glu Glu Trp Thr Thr Gly Ala Trp
 130 135 140
 Lys Asn Pro His Val Gln Gln Ala Ala Gln Asn Ala Ala Met Gly Ala
 145 150 155 160
 Ala Gln Gly Ala Met Asn Gln Pro Gln Thr Gln Tyr Ser Ala Thr Pro
 165 170 175
 Asn Tyr Thr Tyr Ser Asn Glu Met
 180

<210> 154
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 154
 Ala Arg Glu Ser Ser Asn
 1 5

<210> 155
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 155
 Arg Asn Cys Thr Lys Ser Leu Asp His Pro Thr Ser Ala Cys Trp Leu
 1 5 10 15
 Phe Pro Asp Asn Gln Phe Gly Glu Ser Glu Pro Arg Pro Ser Lys Glu
 20 25 30
 Val Glu Ser Phe Ala Arg Lys Asn Tyr Gly Val Thr Phe Pro Ile Phe
 35 40 45
 His Lys Ile Lys Ile Leu Gly Ser Glu Gly Glu Pro Ala Phe Arg Phe
 50 55 60
 Leu Val Asp Ser Ser Lys Lys Glu Pro Arg Trp Asn Phe Trp Lys Tyr
 65 70 75 80

T02020"35255555

Asn Gln Tyr Pro Glu Ser Asn Ala Glu Tyr Leu Ala His Leu Val Pro
20 25 30

```
<210> 160
<211> 47
<212> PRT
<213> Homo sapiens
```

Asp Ser Lys Ala Lys Gln Arg Val Met Asp Ile Val Arg Asn Leu Gly
20 25 30

```
<210> 161
<211> 48
<212> PRT
<213> Homo sapiens
```

Leu Ser Ala Val Leu Cys Val Phe Leu Phe Phe Tyr Cys Val Ile Arg
20 25 30

Asp Val Ile Tyr Pro Tyr Val Tyr Glu Lys Lys Asp Asn Thr Phe Arg
35 40 45

```
<210> 162
<211> 375
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (213)
<223> Xaa equals any of the naturally occurring L-amino acids
```

<220>
 <221> SITE
 <222> (214)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (225)
 <223> Xaa equals any of the naturally occurring L-amino acids.

<220>
 <221> SITE
 <222> (235)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 162
 Val Leu Asn Gly Lys Ile Leu Val Asp Ile Ser Asn Asn Leu Lys Ile
 1 5 10 15
 Asn Gln Tyr Pro Glu Ser Asn Ala Glu Tyr Leu Ala His Leu Val Pro
 20 25 30
 Gly Ala His Val Val Lys Ala Phe Asn Thr Ile Ser Ala Trp Ala Leu
 35 40 45
 Gln Ser Gly Ala Leu Asp Ala Ser Arg Gln Val Phe Val Cys Gly Asn
 50 55 60
 Asp Ser Lys Ala Lys Gln Arg Val Met Asp Ile Val Arg Asn Leu Gly
 65 70 75 80
 Leu Thr Pro Met Asp Gln Gly Ser Leu Met Ala Ala Lys Glu Ile Glu
 85 90 95
 Lys Tyr Pro Leu Gln Leu Phe Pro Met Trp Arg Phe Pro Phe Tyr Leu
 100 105 110
 Ser Ala Val Leu Cys Val Phe Leu Phe Phe Tyr Cys Val Ile Arg Asp
 115 120 125
 Val Ile Tyr Pro Tyr Val Tyr Glu Lys Lys Asp Asn Thr Phe Arg Met
 130 135 140
 Ala Ile Ser Ile Pro Asn Arg Ile Phe Pro Ile Thr Ala Leu Thr Leu
 145 150 155 160
 Leu Ala Leu Val Tyr Ser Leu Val Leu Leu Leu Pro Phe Tyr Asn Cys
 165 170 175
 Thr Glu Xaa Thr Lys Tyr Arg Arg Phe Pro Asp Trp Leu Asp His Trp
 180 185 190
 Met Leu Cys Arg Lys Gln Leu Gly Leu Val Ala Leu Gly Phe Ala Phe
 195 200 205
 Leu Xaa Val Leu Xaa Xaa Leu Val Ile Pro Ile Arg Tyr Tyr Val Arg
 210 215 220
 Xaa Arg Leu Gly Asn Leu Thr Val Thr Gln Xaa Ile Leu Lys Lys Glu
 225 230 235 240

055506 070201
 102070 86255860

Asn Pro Phe Ser Thr Ser Ser Ala Trp Leu Ser Asp Ser Tyr Val Ala
245 250 255

Leu Gly Ile Leu Gly Phe Phe Leu Phe Val Leu Leu Gly Ile Thr Ser
260 265 270

Leu Pro Ser Val Ser Asn Ala Val Asn Trp Arg Glu Phe Arg Phe Val
275 280 285

Gln Ser Lys Leu Gly Tyr Leu Thr Leu Ile Leu Cys Thr Ala His Thr
290 295 300

Leu Val Tyr Gly Gly Lys Arg Phe Leu Ser Pro Ser Asn Leu Arg Trp
305 310 315 320

Tyr Leu Pro Ala Ala Tyr Val Leu Gly Leu Ile Ile Pro Cys Thr Val
325 330 335

Leu Val Ile Lys Phe Val Leu Ile Met Pro Cys Val Asp Asn Thr Leu
340 345 350

Thr Arg Ile Arg Arg Ala Gly Lys Gly Thr Gln Asn Thr Arg Lys Ser
355 360 365

Ile Glu Trp Lys Ile Asn Ile
370 375

<210> 163
<211> 10
<212> PRT
<213> Homo sapiens

<400> 163
Lys Lys Thr Asn Lys Thr Lys Thr Tyr Tyr
1 5 10

<210> 164
<211> 21
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 164
Arg Ala Pro Pro Ser Ser Val Tyr Gln Asn Gln Gln Ala Arg Ala Gln
1 5 10 15

Leu Xaa Asp Phe Cys
20

<210> 165
<211> 38
<212> PRT
<213> Homo sapiens

099560-070604

Ser Leu Cys Pro Cys Ala Ser Arg Thr Glu Ala Pro Gly Arg Pro Trp

35 40 45
 Gly Leu Leu Cys Arg Leu His Leu His Gly Arg Thr Glu His Ser Val
 50 55 60
 Cys Val Ala Gly Gln Gly Ser Asp Ser Ala Lys Ala Ala Ala His Pro
 65 70 75 80
 Ser Val Gln Gly Glu Trp Asn Pro His Ala Gly His Leu Pro Phe Leu
 85 90 95
 Pro Asp Pro Ser Leu Pro Leu His Val Leu Val Leu Trp Pro Pro Ala
 100 105 110
 Gly Thr Lys Pro Ala Pro Ser Thr Leu Gln His Pro Ile Leu Leu Gln
 115 120 125
 Arg Gly Gln Cys Leu Pro Arg Ser Ser Ser Asp Leu Leu Val Leu Ser
 130 135 140
 Ala Val Gln Glu Gly Ser Pro Ala Leu
 145 150

<210> 170
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 170
 Cys Ala Leu Pro His Ser Ser Lys Leu Pro Lys Ser Lys Pro Pro His
 1 5 10 15

Asp His Thr Ser Cys
 20

<210> 171
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 171
 Glu Ala Pro Gly Arg Pro Trp Gly Leu Leu Cys Arg Leu His Leu His
 1 5 10 15

Gly Arg Thr Glu His Ser Val Cys
 20

<210> 172
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 172
 Gln Gly Ser Asp Ser Ala Lys Ala Ala Ala His Pro Ser Val Gln Gly
 1 5 10 15

Glu Trp Asn Pro His Ala Gly His Leu
 20 25

00955660 002020" 8635660

<210> 173
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 173
 Ala Pro Ser Thr Leu Gln His Pro Ile Leu Leu Gln Arg Gly Gln Cys
 1 5 10 15

Leu Pro Arg Ser Ser Ser Asp Leu
 20

<210> 174
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 174
 Ser Val His Ala Val Leu Ala Thr Gly Ser Gly
 1 5 10

<210> 175
 <211> 246
 <212> PRT
 <213> Homo sapiens

<400> 175
 Thr Arg Pro Val Ser Cys Leu Thr Ala Gly Val Leu Asn Pro Glu Leu
 1 5 10 15

Gly Tyr Asp Ala Leu Leu Val Gly Thr Gln Thr Asn Leu Leu Ala Tyr
 20 25 30

Asp Val Tyr Asn Asn Ser Asp Leu Phe Tyr Arg Glu Val Ala Asp Gly
 35 40 45

Ala Asn Ala Ile Val Leu Gly Thr Leu Gly Asp Ile Ser Ser Pro Leu
 50 55 60

Ala Ile Ile Gly Gly Asn Cys Ala Leu Gln Gly Phe Asn His Glu Gly
 65 70 75 80

Ser Asp Leu Phe Trp Thr Val Thr Gly Asp Asn Val Asn Ser Leu Ala
 85 90 95

Leu Cys Asp Phe Asp Gly Asp Gly Lys Lys Glu Leu Leu Val Gly Ser
 100 105 110

Glu Asp Phe Asp Ile Arg Val Phe Lys Glu Asp Glu Ile Val Ala Glu
 115 120 125

Met Thr Glu Thr Glu Ile Val Thr Ser Leu Cys Pro Met Tyr Gly Ser
 130 135 140

Arg Phe Gly Tyr Ala Leu Ser Asn Gly Thr Val Gly Val Tyr Asp Lys
 145 150 155 160

0989355860
 1020/0"3525860

```
<210> 178
<211> 54
<212> PRT
<213> Homo sapiens
```


<400> 178

Lys Glu Leu Leu Val Gly Ser Glu Asp Phe Asp Ile Arg Val Phe Lys
 1 5 10 15

Glu Asp Glu Ile Val Ala Glu Met Thr Glu Thr Glu Ile Val Thr Ser
 20 25 30

Leu Cys Pro Met Tyr Gly Ser Arg Phe Gly Tyr Ala Leu Ser Asn Gly
 35 40 45

Thr Val Gly Val Tyr Asp
 50

<210> 179

<211> 37

<212> PRT

<213> Homo sapiens

<400> 179

Lys Thr Ser Arg Tyr Trp Arg Ile Lys Ser Lys Asn His Ala Met Ser
 1 5 10 15

Ile His Val Phe Asp Leu Asn Ser Asp Gly Val Asn Glu Leu Ile Thr
 20 25 30

Gly Trp Ser Asn Gly
 35

<210> 180

<211> 50

<212> PRT

<213> Homo sapiens

<400> 180

Lys Val Asp Ala Arg Ser Asp Arg Thr Gly Glu Val Ile Phe Lys Asp
 1 5 10 15

Asn Phe Ser Ser Ala Ile Ala Gly Val Val Glu Gly Asp Tyr Arg Met
 20 25 30

Asp Gly His Ile Gln Leu Ile Cys Cys Ser Val Asp Gly Glu Ser Lys
 35 40 45

Leu Gly
 50

<210> 181

<211> 55

<212> PRT

<213> Homo sapiens

<400> 181

His Ala Ser Gly Arg Gly Ala Gly Gly Gly Gly Gly Gly Gly Arg
 1 5 10 15

Asp Pro Ala Gly Gln Val Gly Thr Ala Arg Ser Gly Cys Gly Arg Cys
 20 25 30

F022020"86255850

<400> 182																	
Thr	Thr	Ser	Pro	Ser	Trp	Ala	Thr	Ser	Leu	Leu	Arg	Gly	Cys	Gln	Ala		
1				5					10					15			
Lys	Gly	Pro	Thr	Lys	Ser	Arg	Leu	Met	Ser	Ser	Arg	Gly	Thr	Glu	Leu		
			20					25					30				
Arg	Thr	Ala	Ser	Val	Lys	Leu	Ala	Lys	Gly	Ser	Thr	Ser	Arg	Glu	Val		
		35					40					45					
Pro	Arg	Met	Ser	Ser	Arg	Ser	Ala	Met	Gly	Lys	Ser	Thr	Thr	Cys	Ser		
		50				55					60						
Lys	Asn	Leu	Trp	Gly	Ser	Gly	Ser	Gln	Arg	Thr	Gln	Cys	Arg	Ala	Ser		
65					70					75					80		
Gln	Arg	Arg	Cys	Arg	Pro	Gly	Ser	Gly	Glu	Pro	Cys	Leu	Pro	Ser	Arg		
				85					90					95			
Gln	Pro	Glu	Cys	Pro	Pro	Leu	Gly	Arg	Val	Phe	Gly	Arg	Leu	Cys	Arg		
			100					105					110				
Trp	Gln	Arg	Gln	Arg	Phe	His	Glu	Leu	Gln	Pro	Ala	Leu	Arg	Gln	Gly		
		115					120					125					
Cys	Pro	Thr	Leu	Lys	Phe	Lys	Pro	Lys	Arg	Ser	Val	Ala	Ala	Ala	Ser		
		130				135					140						
Glu	Met	Ser	Thr	Gln	Gly	Gln	Glu	His	Asn	Phe	Trp	Ala	Trp	Gln	Asp		
145					150					155					160		
Ser	Ser	Leu	Lys	Pro	Ile	Asp	Val	Leu	Arg	Val	Glu	Pro	Gln	Lys	Gln		
				165					170					175			
Pro	Leu	Val	Met	Lys	Gln	Pro	Glu	Lys	Val	Val	Ser	Asp	Val	Gly	Leu		
			180					185					190				
Val	Val	Ser	Arg	Val	Gln	Leu	Leu	Gly	Gln	Ser	Glu	Lys	Gly	Leu	Gly		
		195				200						205					
Val	Val	Lys	Glu	Glu	Trp	Glu	Phe	Lys	Asn	Gly	Leu	Gly	Val	Arg	Glu		
		210				215					220						
Ile	Val	Leu	Leu	Glu	Val	Ala	Val	Gln	Ala	Thr	Pro	Arg	Arg	Ser	Glu		
225					230					235					240		
Val	Trp	Asn	Ala	Thr	Gly	Cys	Ala	Asp	Ala	Gly	Pro	His	His	Asp	His		
				245					250					255			

His Pro Leu Ala Gly Ser Gly Pro Asn Gln Leu Ser Tyr Ile Leu Gln
 260 265 270

Gly Lys Leu Pro Leu Val Thr Ala Ala Ser Thr Ser Asn Asn Thr
 275 280 285

<210> 183
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 183
 Leu Leu Arg Gly Cys Gln Ala Lys Gly Pro Thr Lys Ser Arg Leu Met
 1 5 10 15

Ser Ser Arg Gly Thr Glu Leu Arg Thr Ala
 20 25

<210> 184
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 184
 Met Gly Lys Ser Thr Thr Cys Ser Lys Asn Leu Trp Gly Ser Gly Ser
 1 5 10 15

Gln Arg Thr Gln Cys Arg Ala
 20

<210> 185
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 185
 Gly Ser Gly Glu Pro Cys Leu Pro Ser Arg Gln Pro Glu Cys Pro Pro
 1 5 10 15

Leu Gly Arg Val Phe Gly Arg Leu Cys Arg
 20 25

<210> 186
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 186
 Pro Thr Leu Lys Phe Lys Pro Lys Arg Ser Val Ala Ala Ala Ser Glu
 1 5 10 15

Met Ser Thr Gln Gly Gln Glu His
 20

<210> 187

0989598-070001

<400> 189																	
Asp	Trp	Leu	Leu	Ser	Val	Ser	Phe	Ala	Ala	Val	Phe	Phe	Ser	Val	Ser		
1				5					10					15			
Ile	Lys	Gly	Gly	Arg	Arg	Ser	Ile	Ser	Phe	Ser	Val	Gly	Ala	Ser	Ser		
			20					25					30				
Val	Val	Gly	Ser	Gly	Gly	Ser	Ser	Asp	Lys	Gly	Lys	Leu	Ser	Leu	Gln		
		35					40					45					
Asp	Val	Ala	Glu	Leu	Ile	Arg	Ala	Arg	Ala	Cys	Gln	Arg	Val	Val	Val		
	50					55					60						
Met	Val	Gly	Ala	Gly	Ile	Ser	Thr	Pro	Ser	Gly	Ile	Pro	Asp	Phe	Arg		
65					70					75						80	
Ser	Pro	Gly	Ser	Gly	Leu	Tyr	Ser	Asn	Leu	Gln	Gln	Tyr	Asp	Leu	Pro		
				85					90					95			
Tyr	Pro	Glu	Ala	Ile	Phe	Glu	Leu	Pro	Phe	Phe	Phe	His	Asn	Pro	Lys		
			100					105					110				
Pro	Phe	Phe	Thr	Leu	Ala	Lys	Glu	Leu	Tyr	Pro	Gly	Asn	Tyr	Lys	Pro		
		115					120					125					
Asn	Val	Thr	His	Tyr	Phe	Leu	Arg	Leu	Leu	His	Asp	Lys	Gly	Leu	Leu		
		130				135					140						
Leu	Arg	Leu	Tyr	Thr	Gln	Asn	Ile	Asp	Gly	Leu	Glu	Arg	Gly	Val	Leu		
145					150					155					160		

Leu Tyr Pro Gly Asn Tyr Lys Pro Asn Val Thr His Tyr Phe Leu Arg
1 5 10 15

Glu Pro Leu Pro Gln Arg Phe Leu

```
<210> 197
<211> 25
<212> PRT
<213> Homo sapiens
```

Leu Glu Val Glu Pro Phe Ala Ser Leu
20 25

```
<210> 198
<211> 22
<212> PRT
<213> Homo sapiens
```

Leu Gly Asp Val Val His
20

```
<210> 199
<211> 23
<212> PRT
<213> Homo sapiens
```

Leu Val Gln Arg Glu Thr Gly
20

```
<210> 200
<211> 96
<212> PRT
<213> Homo sapiens
```

Thr Phe Ala Ser Ala Thr Cys Thr Val Cys Gln Arg Pro Phe Pro Gly
20 25 30

Glu Asp Ile Arg Ala Asp Val Met Ala Asp Arg Val Pro Arg Cys Pro
35 40 45

Val Cys Thr Gly Val Val Lys Pro Asp Ile Val Phe Phe Gly Ser Arg
50 55 60

Cys Pro Arg Gly Ser Cys Cys Met Trp Leu Ile Ser Pro Trp Gln Ile

```
<210> 201
<211> 33
<212> PRT
<213> Homo sapiens
```

Pro Phe Pro Gly Glu Asp Ile Arg Ala Asp Val Met Ala Asp Arg Val
20 25 30

```
<210> 202
<211> 27
<212> PRT
<213> Homo sapiens
```

Ser Pro Trp Gln Ile Cys Cys Ser Ser Leu Gly
20 25

```
<210> 203
<211> 184
<212> PRT
<213> Homo sapiens
```

Thr Val Cys Thr Asp Phe Ser Met Cys Val Cys Gly Cys Met Tyr Glu
20 25 30

Cys Val Cys Val Phe Val Cys Leu Cys Ile Tyr Arg Gly Met Arg Val
35 40 45

Pro Trp Val Cys Thr Leu Asp Ile Pro Leu Tyr Ile Leu Cys Val Leu
50 55 60

Thr Trp Thr His Ser Val Tyr Leu Tyr Cys Val Tyr Thr His Val Gln
65 70 75 80

Pro Ile Cys Pro Tyr Ile Gly Val Cys Val Tyr Tyr Val Cys Thr Leu
85 90 95

Ser Thr Tyr Gly Cys Val Cys Val Pro Leu Ser Pro Tyr Leu Gly Glu
100 105 110

Arg Glu Asn Val Cys Val Cys Val Ser Met Tyr Gly Cys Val Asp Ile
115 120 125

Leu Cys Leu Tyr Leu Glu Cys Arg Tyr Met Asp Val His Val Leu Cys
130 135 140

Val Cys Val Arg Thr His Thr Leu Pro Leu Cys Val Cys Ala Cys Val
145 150 155 160

Tyr Leu Val Cys Pro Cys Ile Gly Gly Val Cys Thr Leu Leu Val Tyr
165 170 175

Val Trp Gly Ser Thr Cys Ser Leu
180

<210> 204

<211> 55

<212> PRT

<213> Homo sapiens

<400> 204

Ala Ser Leu Ile Phe Ser Ser Pro Leu Ser Pro Leu Leu Thr Ser Pro
1 5 10 15

Ser Ser Ser Ile Cys Ser Val Arg Pro Leu Gly Ile Val Met Ile Thr
20 25 30

Cys Phe His Ser Arg Cys His Leu Lys Gln Arg Pro Ala Ser Pro Asn
35 40 45

Gly Val Phe Gln Gln Arg Ala
50 55

<210> 205

<211> 43

<212> PRT

<213> Homo sapiens

<400> 205

Ala His Leu Ser Pro Thr Ala Ala Leu His Val Ala Gln Gly Glu Ser
1 5 10 15

Leu Ser Thr Asp Val Glu Cys Arg Val Pro Gly Leu Met Leu Thr Leu
20 25 30

Leu Leu Ala Val His Gln Gln Ile Leu Val Gly
35 40

<210> 206

<211> 42

<212> PRT

<213> Homo sapiens

<400> 206

09895698100201

<400> 208
Val Glu Ala Glu Trp Leu Gln Asp Val Gly Leu Ser Thr Leu Ile Ser

<210> 210
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 210
 Lys Lys Asp Lys Gln Ser Ile Arg Asp Val Arg Asp Ile Phe Gly Val
 1 5 10 15
 Ser Glu Ser Pro Pro Arg Asp Thr Cys Gly Asn His Thr Asn Gln Leu
 20 25 30
 Asp Gly Thr Lys Glu Glu Arg Glu Leu Pro Arg Val Ile Lys Thr Ser
 35 40 45
 Gly Ser Met Pro Asp Asp
 50

<210> 211
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 211
 Ala Ser Leu Asn Ser Thr Thr Leu Ser Asp Ala Ser Gln Asp Lys Glu
 1 5 10 15
 Gly Ser Phe Ala Val Pro Arg Ser Asp Ser Val Ala Ile Leu Glu Thr
 20 25 30
 Ile Pro Val Leu Pro Val His Ser Asn Gly Ser Pro Glu Pro Gly Gln
 35 40 45
 Pro Val Gln Asn
 50

<210> 212
 <211> 63
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 212
 Ala Ile Ser Asp Asp Asp Phe Leu Glu Lys Asn Ile Xaa Pro Glu Ala
 1 5 10 15
 Glu Glu Leu Ser Phe Glu Val Ser Tyr Ser Glu Met Val Thr Glu Ala
 20 25 30
 Leu Lys Arg Asn Lys Leu Lys Lys Ser Glu Ile Lys Lys Glu Asp Tyr

00555360

45

```
<210> 216
<211> 20
<212> PRT
<213> Homo sapiens
```

<400> 216

Met Arg Thr Ala Arg Val Pro Met Arg Pro Ser Trp Thr Arg Thr Pro
 1 5 10 15

Ser Phe Ala Arg
 20

<210> 217

<211> 21

<212> PRT

<213> Homo sapiens

<400> 217

Pro Gly Trp Lys Pro Ile Val Lys Phe Pro Gly Ala Val Asp Gly Ala
 1 5 10 15

Thr Tyr Asn Pro Gly
 20

<210> 218

<211> 149

<212> PRT

<213> Homo sapiens

<400> 218

Ser Ser Ser Arg Gly Pro Trp Thr Ala Gln Pro Ile Ile Leu Val Met
 1 5 10 15

Val Asp Pro Asp Ala Pro Ser Arg Ala Glu Pro Arg Gln Arg Phe Trp
 20 25 30

Arg His Trp Leu Val Thr Asp Ile Lys Gly Ala Asp Leu Lys Lys Gly
 35 40 45

Lys Ile Gln Gly Gln Glu Leu Ser Ala Tyr Gln Ala Pro Ser Pro Pro
 50 55 60

Ala His Ser Gly Phe His Arg Tyr Gln Phe Phe Val Tyr Leu Gln Glu
 65 70 75 80

Gly Lys Val Ile Ser Leu Leu Pro Lys Glu Asn Lys Thr Arg Gly Ser
 85 90 95

Trp Lys Met Asp Arg Phe Leu Asn Arg Phe His Leu Gly Glu Pro Glu
 100 105 110

Ala Ser Thr Gln Phe Met Thr Gln Asn Tyr Gln Asp Ser Pro Thr Leu
 115 120 125

Gln Ala Pro Arg Glu Arg Ala Ser Glu Pro Lys His Lys Asn Gln Ala
 130 135 140

Glu Ile Ala Ala Cys
 145

<210> 219

<211> 24

0569529.070001

<213> Homo sapiens

Pro Ile Ile Leu Val Met Val Asp Pro Asp Ala Pro Ser Arg Ala Glu

1 5 10 15

20

<211> 23

<213> Homo sapiens

Lys Ile Gln Gly Gln Glu Leu Ser Ala Tyr Gln Ala Pro Ser Pro Pro

1 5 10 15

20

<211> 20

<213> Homo sapiens

Ile Ser Leu Leu Pro Lys Glu Asn Lys Thr Arg Gly Ser Trp Lys Met

1 5 10 15

20

<211> 17

<213> Homo sapiens

Gln Glu Leu Ser Ala Tyr Gln Ala Pro Ser Pro Pro Ala His Ser Gly

1 5 10 15

Phe

<211> 8

<213> Homo sapiens

Pro Glu Val Pro Met Gly Trp Thr

1 5

<210> 224

<400> 224

Arg Gly Arg Arg Asn Leu
85

<400> 225

Ser Asp Ala Gly

<400> 226

Gln Glu Ala Glu Ala Gly Asp Gln Asp Gly
20 25

<210> 227
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 227
 Ala Gly Ala Gly Gln Ala Trp Leu Ser Cys His Arg His Met Val Glu
 1 5 10 15

Arg Gly Val Pro Cys Pro Pro Trp Gly Gly Gly Thr
 20 25

<210> 228
 <211> 136
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 228
 Ser Pro Xaa Thr His Val Gln Gly Gln Thr Gly Met Tyr Val Ile Trp
 1 5 10 15

Gly Leu Gly Gly Gly Leu Pro Arg Gly His Pro Pro Leu Leu Gly Pro
 20 25 30

Pro Trp Pro Asp Pro Phe Cys Gly Glu Thr Gly Cys Pro Trp Ser Leu
 35 40 45

Arg Asn Ala Thr Arg Leu Val Gly Met Ala Trp Gly Arg Arg Gln Arg
 50 55 60

Gln Glu Thr Lys Met Ala Gly Gly Gly Gln Ala Tyr His Asn Gly Arg
 65 70 75 80

Asp Leu Pro Leu Gly Pro Gly Arg Pro Gly Ser Ala Ala Thr Gly Ile
 85 90 95

Trp Trp Arg Gly Gly Tyr Pro Ala His Leu Gly Val Val Ala Pro Glu
 100 105 110

Leu Leu Ser Ile Gln Thr Leu Val Trp Gly Leu Gly Pro Leu Thr Gly
 115 120 125

Asp Arg Ala Ser Val Gly Glu Phe
 130 135

<210> 229
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 229
 Trp Gly Leu Gly Gly Gly Leu Pro Arg Gly His Pro Pro Leu Leu Gly
 1 5 10 15

00355259-070001

```
<210> 230
<211> 26
<212> PRT
<213> Homo sapiens
```

Gly Arg Asp Leu Pro Leu Gly Pro Gly Arg
20 25

```
<210> 231
<211> 20
<212> PRT
<213> Homo sapiens
```

```
<400> 231
His Leu Gly Val Val Ala Pro Glu Leu Leu Ser Ile Gln Thr Leu Val
  1                      5                      10                     15
```

Trp Gly Leu Gly
20